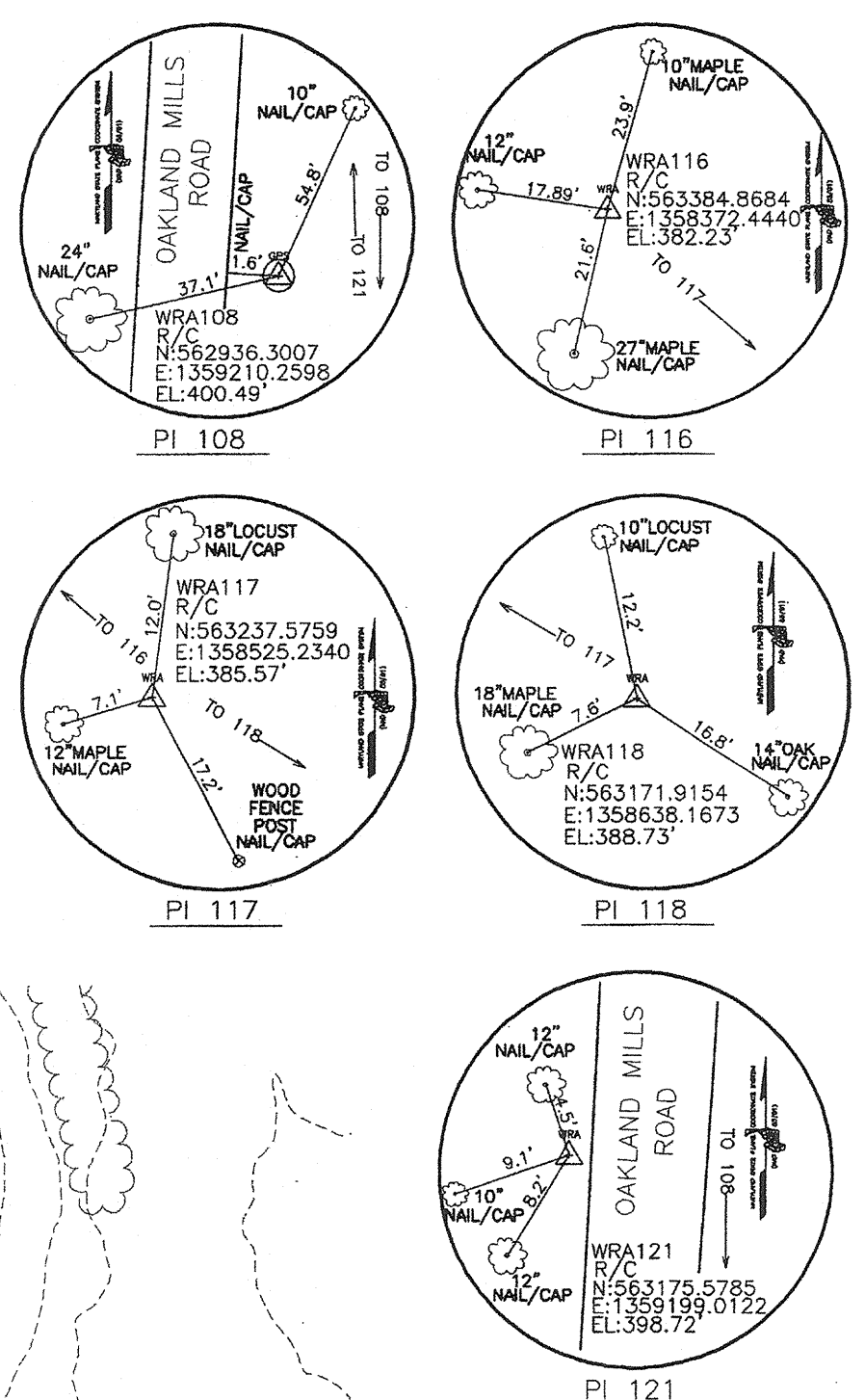


**GENERAL NOTES**

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY SPECIFICATIONS AND DETAILS FOR CONSTRUCTION PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
3. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
4. THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE 2/2/04 COMPREHENSIVE ZONING PLAN AND PER THE "COMP LITE" ZONING REGULATION AMENDMENTS EFFECTIVE 7/28/06.
5. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UP ON THE MARYLAND STATE PLANE COORDINATE SYSTEM: HORIZONTAL NAD'83/91 VERTICAL NAVD'88.  
HOWARD COUNTY MONUMENTS USED FOR THIS PROJECT:  
30HA: N 566030.6258, E 1357989.5444  
36BC: N 563264.1261, E 1359585.7197
6. TOPOGRAPHICAL FIELD SURVEYS OF THE SITE WERE PERFORMED BY WHITMAN, REQUARDT & ASSOCIATES LLP (WRA) IN MARCH 2008. ADDITIONAL UTILITY INFORMATION WAS PROVIDED BY HOWARD COUNTY RECORDS AND MAY NOT REFLECT CURRENT CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY CURRENT TOPOGRAPHIC AND UTILITY INFORMATION.
7. APPROXIMATE LOCATION AND INVERTS OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN AN UNINTERRUPTED SERVICE. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES BY TEST PIT OR OTHER MEANS OF INVESTIGATION APPROVED BY THE OWNER WELL IN ADVANCE OF CONSTRUCTION. ANY DAMAGE BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.

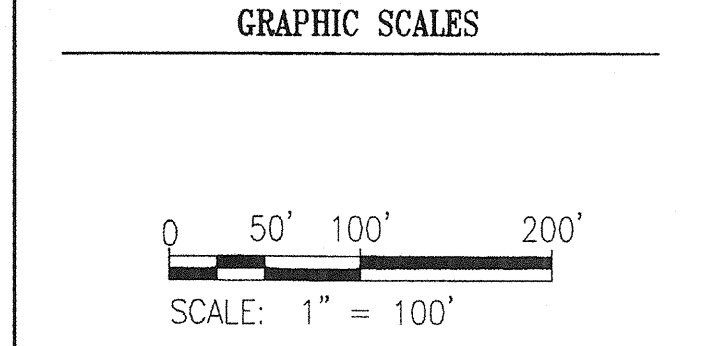


REVISIONS	
BID SET	11/28/11

**HOWARD COUNTY**  
 DEPARTMENT OF RECREATION AND PARKS  
 7120 OAKLAND MILLS ROAD  
 COLUMBIA, MD 21046  
 DEPARTMENT OF PUBLIC WORKS  
 9250 BENDIX ROAD  
 ELLICOTT CITY, MD 21043

**WR&A**  
 WHITMAN, REQUARDT & ASSOCIATES, LLP  
 801 South Caroline Street, Baltimore, Maryland 21231  
 Phone: 410-235-3450 Fax: 410-243-5716

**PROPERTY**  
 TAX MAP 36, GRID 5, PARCEL 3,72  
 ZONING: RC-DEO  
 ELECTION DISTRICT 3/7



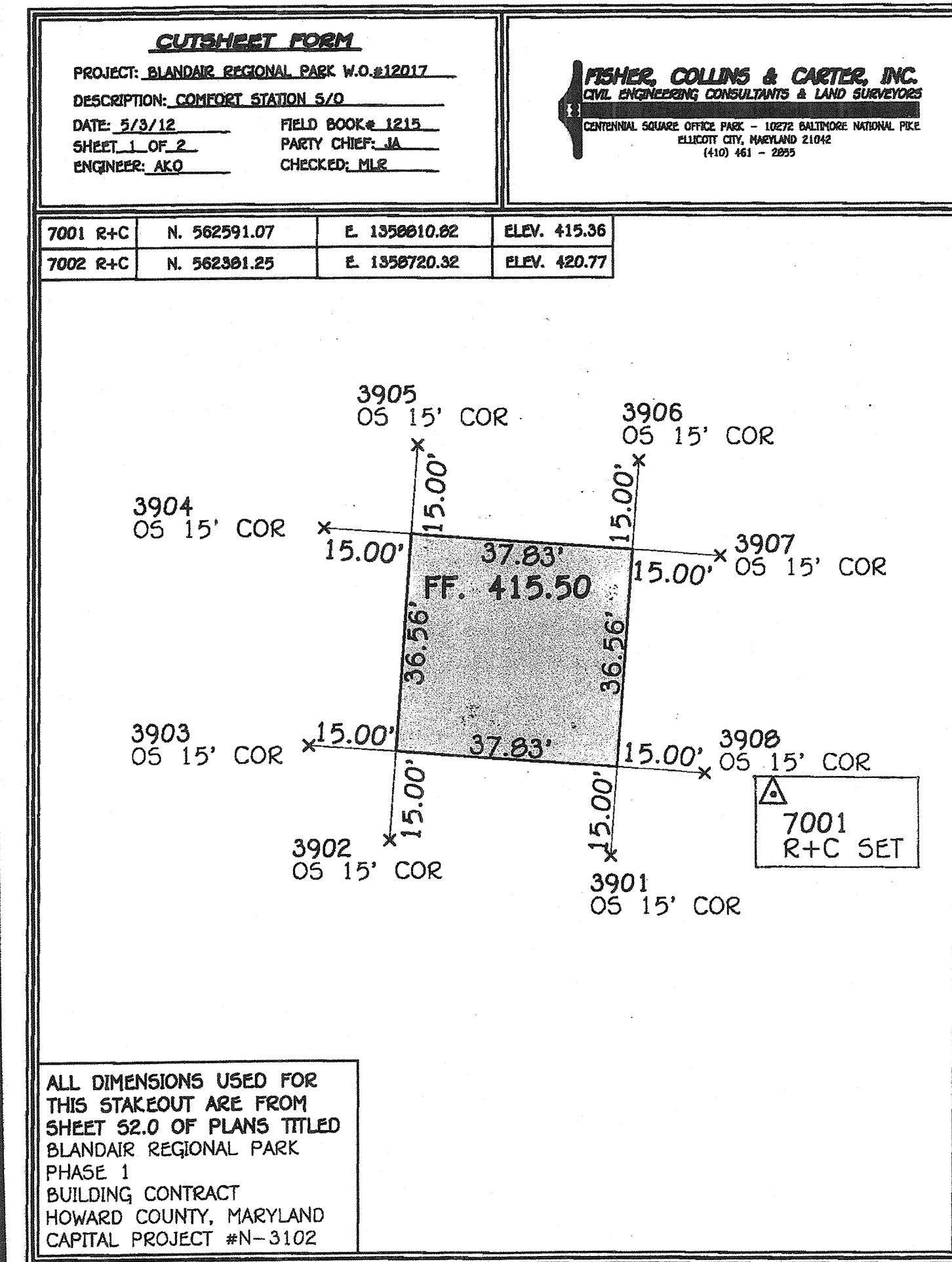
**SIGNATURE**

PROFESSIONAL CERTIFICATION:  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19376.  
 EXPIRATION DATE: 09/22/2013

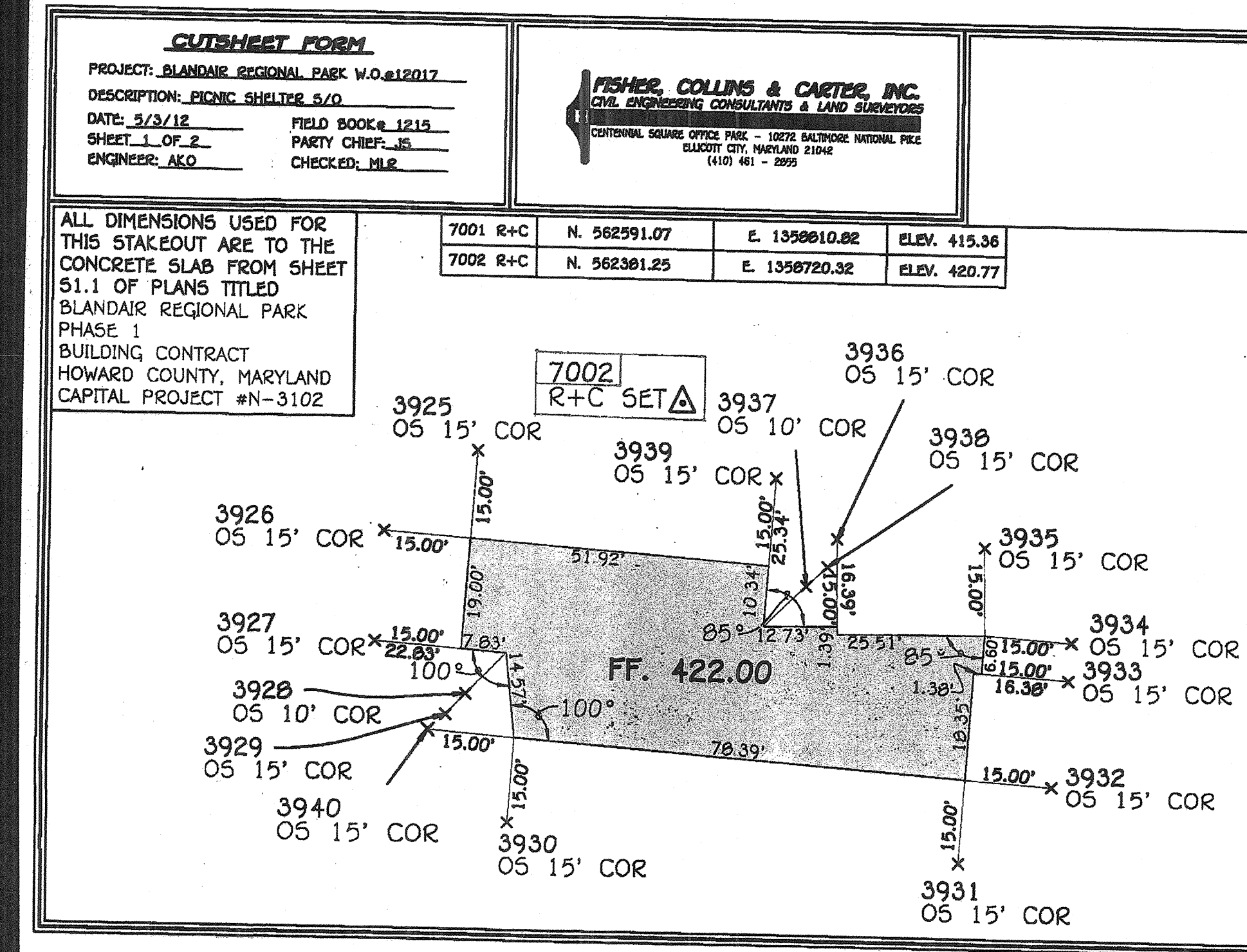
**BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT**

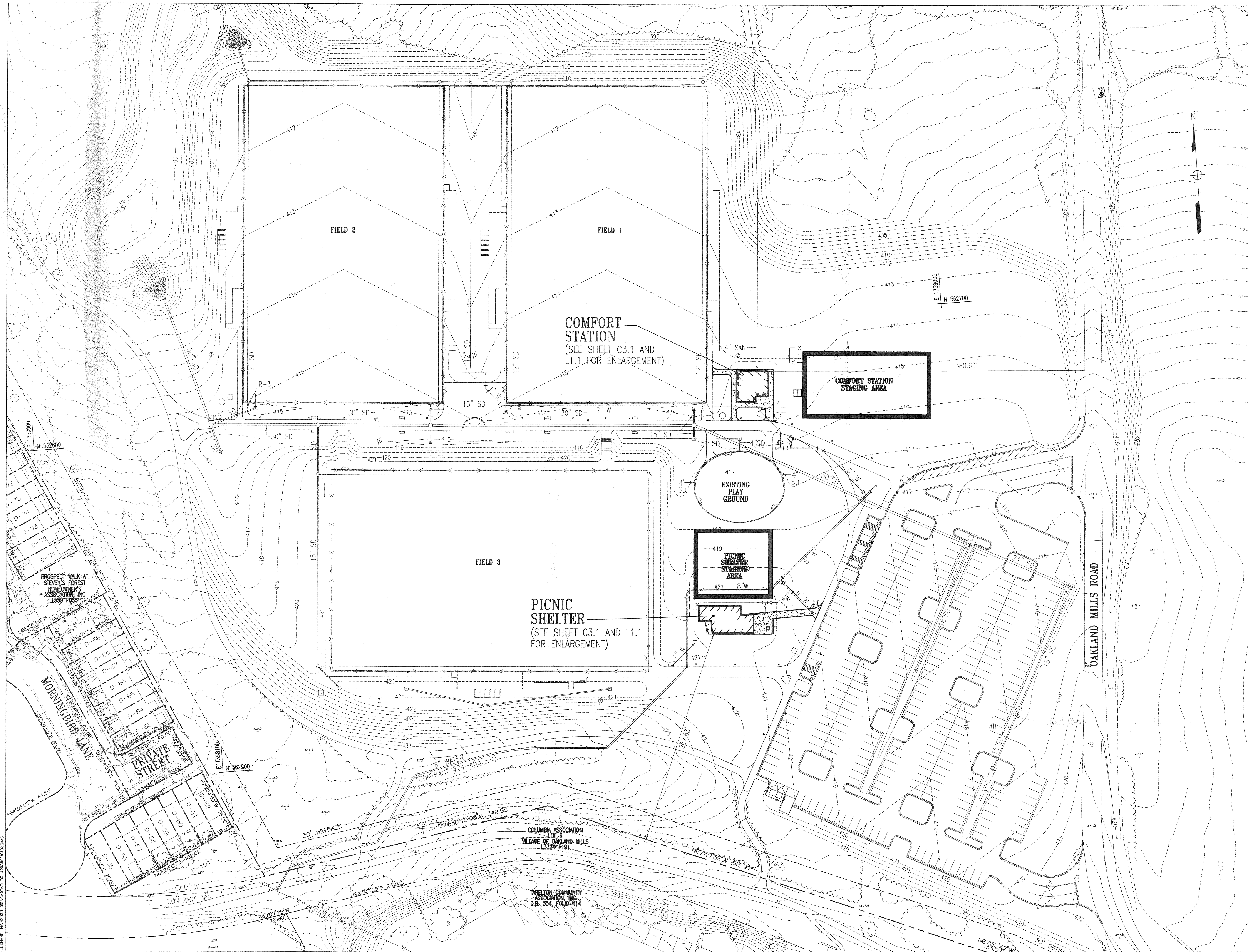
**EXISTING SITE PLAN**  
 Drawing No. **C1.1**  
 Scale: 1" = 100'  
 Date: 11/28/2011 Sheet 2 of 55  
 Des: CYH Drawn: CYH Check: AUO

CUTSHEET FORM					
Subject	BLANDAIR REGIONAL		Work Order	12017	
Description	COMFORT STATION S/O		Field Book	1215	
DATE	5/3/12		Party Chief	JS	
SHEET	2 OF 2		Check By	MLR	
Prepared By	AKQ		FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS AND LAND SURVEYORS		
STATION	ELEVATION		CUT	FILL	DESCRIPTION
	HUB	FINISHED FIRST FLOOR			
3901	415.38	415.50		0.12	OS 15' COR. CONCRETE WALL
3902	415.29	415.50		0.21	OS 15' COR. CONCRETE WALL
3903	415.12	415.50		0.38	OS 15' COR. CONCRETE WALL
3904	414.84	415.50		0.66	OS 15' COR. CONCRETE WALL
3905	414.64	415.50		0.86	OS 15' COR. CONCRETE WALL
3906	414.94	415.50		0.56	OS 15' COR. CONCRETE WALL
3907	415.02	415.50		0.48	OS 15' COR. CONCRETE WALL
3908	415.17	415.50		0.33	OS 15' COR. CONCRETE WALL



CUTSHEET FORM					
Subject	BLANDAIR REGIONAL PARK		Work Order	12017	
Description	PICNIC SHELTER S/O		Field Book	1215	
DATE	5/3/12		Party Chief	JS	
SHEET	2 OF 2		Check By	MLR	
Prepared By	AKQ		FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS AND LAND SURVEYORS		
STATION	ELEVATION		CUT	FILL	DESCRIPTION
	HUB	FINISHED FIRST FLOOR			
3925	421.00	422.00		1.00	OS 15' COR. CONCRETE SLAB
3926	420.40	422.00		1.60	OS 15' COR. CONCRETE SLAB
3927	420.55	422.00		1.45	OS 15' / 22.83' COR. CONCRETE SLAB
3928	421.02	422.00		0.98	OS 10' COR. CONCRETE SLAB
3929	420.94	422.00		1.06	OS 15' COR. CONCRETE SLAB
3940	420.79	422.00		1.21	OS 15' COR. CONCRETE SLAB
3930	421.19	422.00		0.81	OS 15' COR. CONCRETE SLAB
3931	420.78	422.00		1.22	OS 15' COR. CONCRETE SLAB
3932	420.68	422.00		1.32	OS 15' COR. CONCRETE SLAB
3933	420.42	422.00		1.58	OS 15' / 16.38' COR. CONCRETE SLAB
3934	420.49	422.00		1.51	OS 15' COR. CONCRETE SLAB
3935	420.71	422.00		1.29	OS 15' COR. CONCRETE SLAB
3936	421.17	422.00		0.83	OS 15' / 16.39' COR. CONCRETE SLAB
3937	421.21	422.00		0.79	OS 10' COR. CONCRETE SLAB
3938	421.20	422.00		0.80	OS 15' COR. CONCRETE SLAB
3939	420.94	422.00		1.06	OS 15' / 25.34' COR. CONCRETE SLAB





REVISIONS	
BID SET	11/28/11

HOWARD COUNTY  
 DEPARTMENT OF RECREATION AND PARKS  
 7120 OAKLAND MILLS ROAD  
 COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS  
 9250 BENDIX ROAD  
 ELLICOTT CITY, MD 21043

**WR&A**  
 WHITMAN, REQUARDT & ASSOCIATES, LLP  
 801 South Caroline Street, Baltimore, Maryland 21231  
 Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7

GRAPHIC SCALES

0 25' 50' 100'

SCALE: 1" = 50'

SIGNATURE

*Anthony Miller*

PROFESSIONAL CERTIFICATION  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19376  
 EXPIRATION DATE: 09/22/2013

BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

OVERALL SITE DEVELOPMENT PLAN

Drawing No. **C1.2**

Scale: 1" = 50'

Date: 11/28/2011 Sheet 3 of 55

Des: CYH Drawn: CYH Check: AUO



RESPONSE to R.F.I.

Date Received: 12 June 2012

Date Responded: 14 June 2012

To: Eric Feiss

From: Chris Ho

Subject: Water Line

R.F.I. Forwarded by Contractor: Ikhana, LLC

Work Order Number: 42038-001

Contract Number: N-3102

Project: Blandair Park - Phase 1

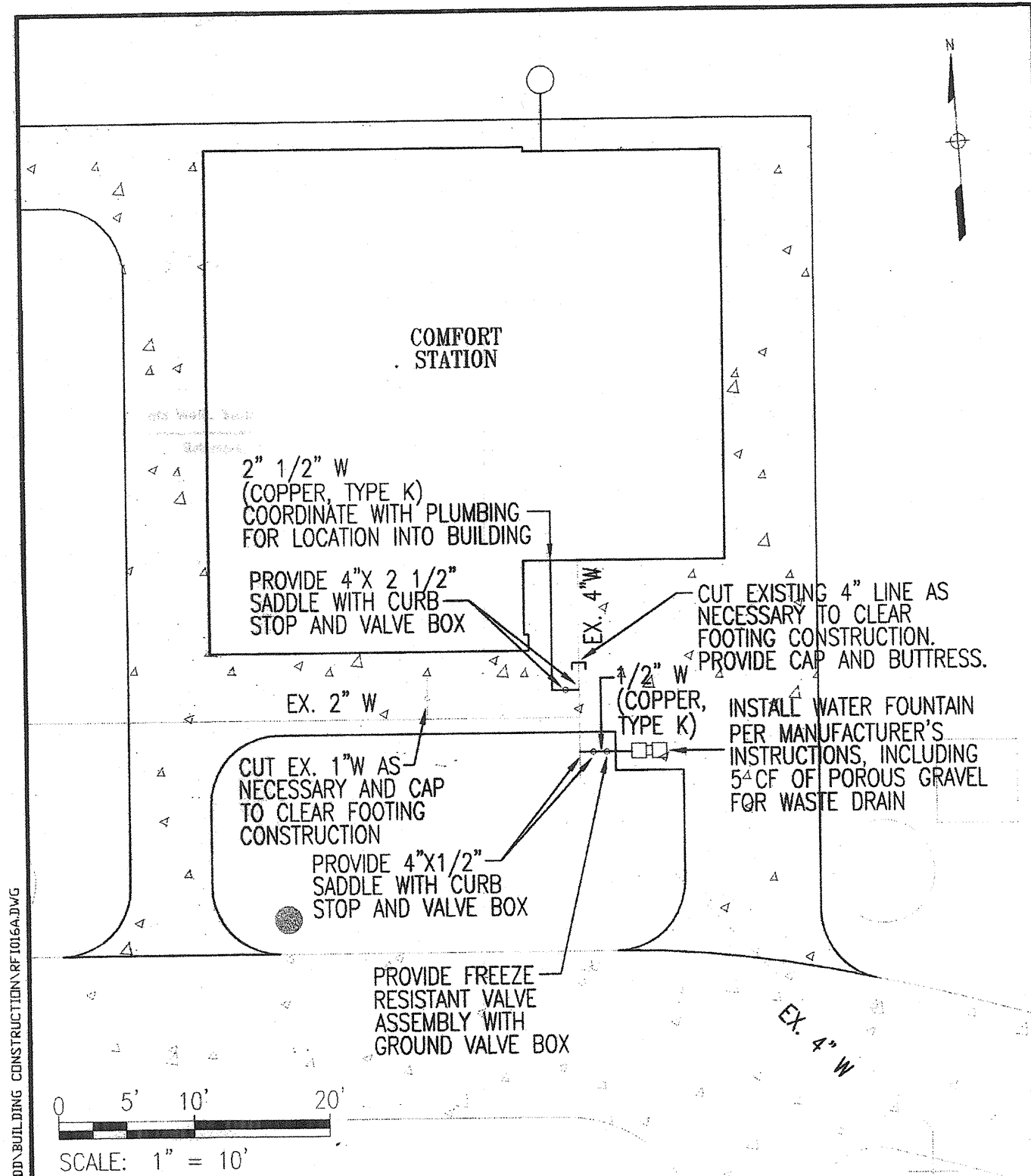
R.F.I. Number: 016

Contractor's Questions:

Sheet C3.1 detail D shows the existing incoming water service to be a 2-1/2" line. Please confirm that we are to continue the 2-1/2" line into the building. Also, you will notice on the attached sketch there is an existing 1" water line that is not shown on Sheet C3.1. This 1" water line interferes with the footing layout and we request that this line be removed back to a point outside of the footing footprint and capped. There will be cost associated with the removal of the 1" line. The plumber has agreed to do this work on a T&M basis and the work should not be more than (2) days for his crew. Please confirm this is acceptable.

WR&A Responses:

Water service to the building should be from a 2-1/2" line outside the building and stubbed through the slab. If the existing 1" water line is located underneath the footing, then it should be cut back and relocated to where the proposed water fountain is located.



	Client	Project Name	Drawing No.
	HOWARD COUNTY	BLANDAIR REGIONAL PARK - PHASE 1	RFI 016A-1
WHITMAN, REQUARDT & ASSOCIATES, LLP 8250 BENDIX ROAD COLUMBIA, MD 21045	9250 BENDIX ROAD COLUMBIA, MD 21045	Drawing Title	Check: AUO
Scale: 1" = 10'	Date: 6/20/12	RFI 016A	Drawn: CYH
			Des: CYH

RFI Transmittal

RFI ID: RFI-014  
Transmittal ID: 00071  
Date Sent: 6/12/2012

Project: Blandair Park-Phase I  
Number: 0811.1

To: Marlon Davis  
Ikhan  
2120 Noisette Blvd.  
Suite 106A  
Charleston, SC 29405  
United States  
843-566-7800 (Phone)  
843-566-7841 (Fax)

From: Eric Feiss  
GW/O, Inc./Architects  
800 Wyman Park  
Suite 300  
Baltimore, MD 21211  
US  
(410) 332-1009 x1107 (Phone)  
(410) 332-0038 (Fax)

Subject: RFI-014 Picnic Shelter Existing Site Elevations  
Via: Email

Purpose: Answered  
Question: The Picnic Shelter area existing grade elevations are approximately 1.0' lower than what is shown on civil drawing C1.2. Would the Owner like us to fill the site to proper elevation using the contingency unit prices and allowance to bring the site to proper grade after the foundation work is completed? The alternate would be to lower the footing depth by extending the cast-in-place pedestal height to install the footings below the frost line. Extending the footings could potentially delay the project further as reinforcement will change due to design changes. Both changes have cost implications however the first option will not affect the schedule. Please advise.

Suggestion: Answer: The preferred solution is to raise the existing grade and not lower the footing elevations. Per Specification Section 010000 - General Specifications, paragraph 1.6A and note 6 on Sheet C1.1, the Contractor is solely responsible for the authenticity of the existing field conditions. The Contract documents did not guarantee the elevations of the existing grade. These conditions should have been considered with the Contractor's lump sum bid and should not be an additional cost to the Owner.

CC: Bill Roester(Howard County Department of Public Works)  
Mark Kovach(Howard County Department of Public Works)  
Chris Ho(Whitman, Requardt & Associates, LLP)  
Raul DeLorme(Howard County Recreation & Parks)  
Clara Gough(Howard County Recreation & Parks)



RESPONSE to R.F.I.

Date Received: 7 June 2012

Date Responded: 8 June 2012

To: Eric Feiss

From: Chris Ho

Subject: Picnic Shelter Existing Site Elevations

R.F.I. Forwarded by Contractor: Ikhan, LLC

Work Order Number: 42038-001

Contract Number: N-3102

Project: Blandair Park - Phase 1

R.F.I. Number: 014

Contractor's Questions:

The Picnic Shelter area existing grade elevations are approximately 1.0' lower than what is shown on civil drawing C1.2. Would the Owner like us to fill the site to proper elevation using the contingency unit prices and allowance to bring the site to proper grade after the foundation work is completed? The alternate would be to lower the footing depth by extending the cast-in-place pedestal height to install the footings below the frost line. Extending the footings could potentially delay the project further as reinforcement will change due to design changes. Both changes have cost implications however the first option will not affect the schedule. Please advise.

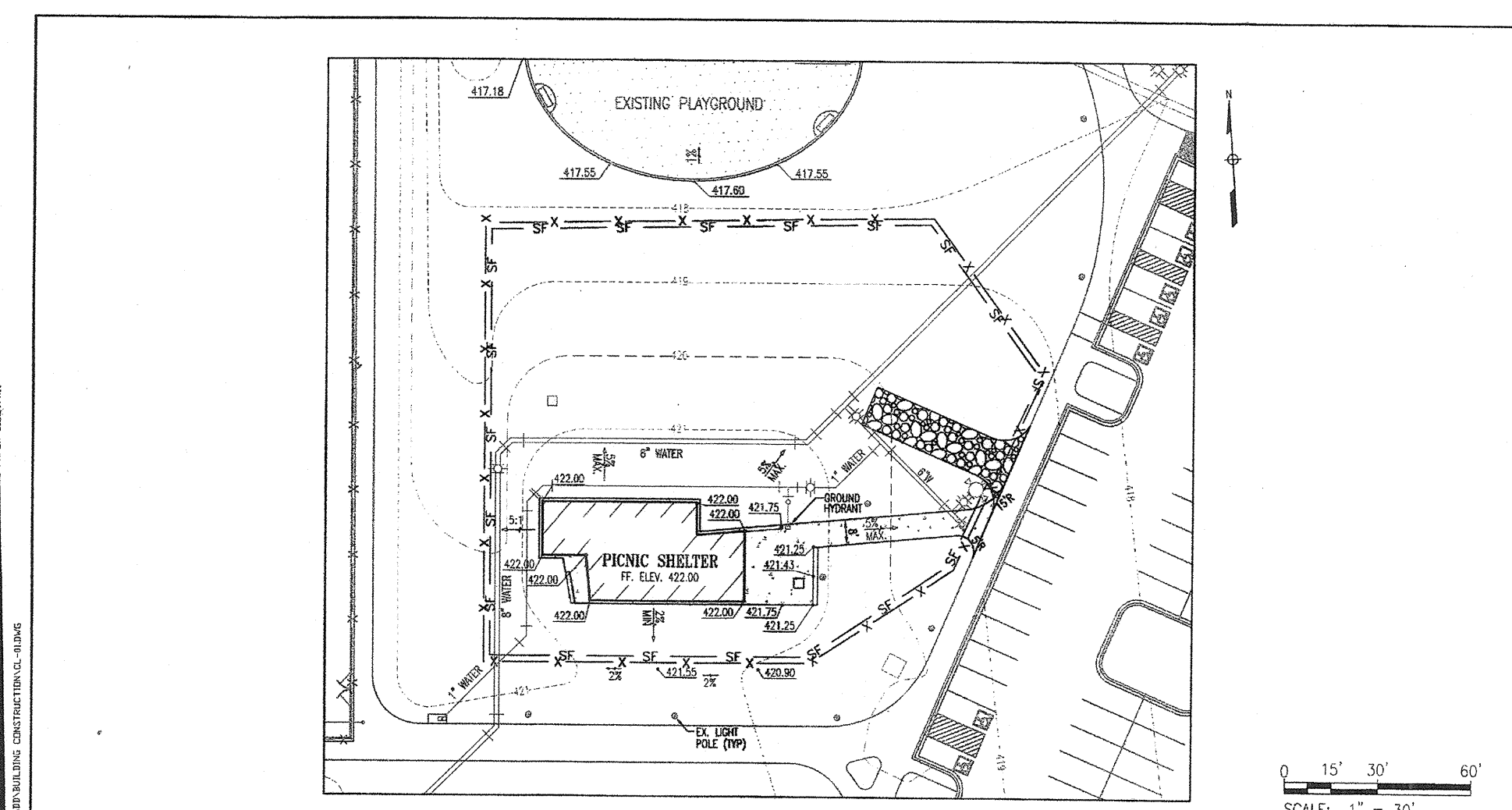
WR&A Responses:

The preferred solution is to raise the existing grade and not lower the footing elevations. Per Specification Section 010000 - General Specifications, paragraph 1.6A and note 6 on Sheet C1.1, the Contractor is solely responsible for the authenticity of the existing field conditions. The Contract documents did not guarantee the elevations of the existing grade. These conditions should have been considered with the Contractor's lump sum bid and should not be an additional cost to the Owner.

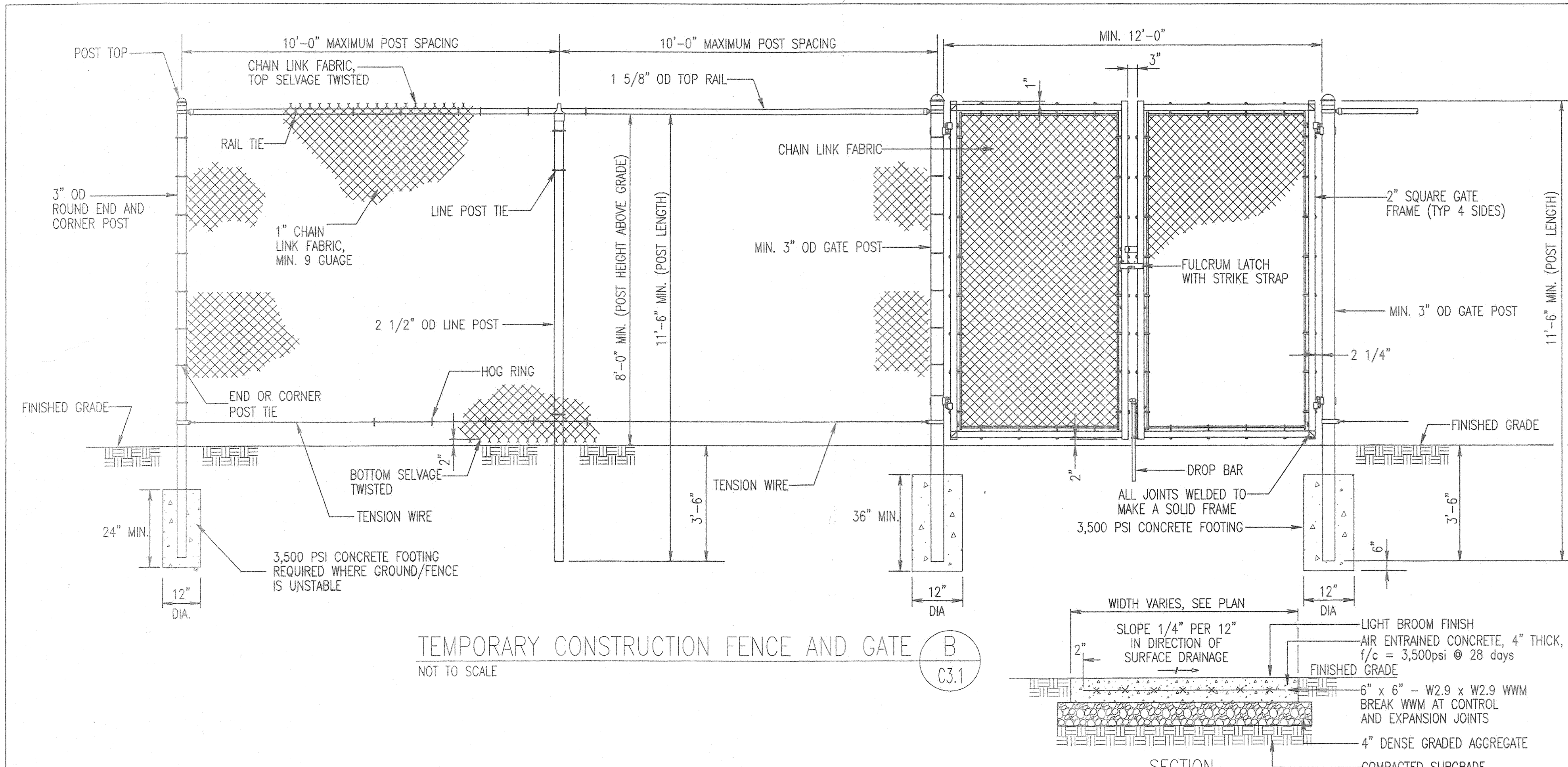
11870 Merchants Walk, Suite 100, Newport News, Virginia 23606 www.wrallp.com Phone: 757-599-5101 Fax: 757-599-5320

Baltimore, MD - Georgetown, DE - Wilmington, DE - Philadelphia, PA - Pittsburgh, PA - York, PA - Houston, TX  
Blackburg, VA - Fairfax, VA - Lynchburg, VA - Newport News, VA - Richmond, VA

N:\42038-001\Engineering\G Const Admin Phase 1B (RFG)\RFI\RFI-014 Picnic Shelter Existing Site Elevations - Response.docx



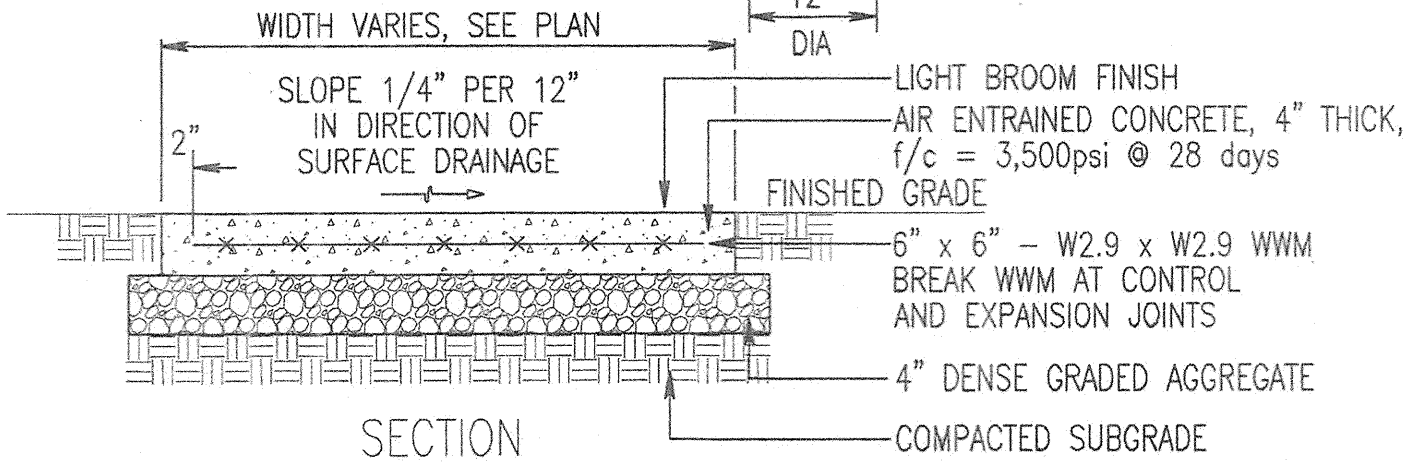
	Client	Project Name	Drawing No.
	HOWARD COUNTY	BLANDAIR REGIONAL PARK - PHASE 1	CL-01
WHITMAN, REQUARDT & ASSOCIATES, LLP 8250 BENDIX ROAD COLUMBIA, MD 21045	9250 BENDIX ROAD COLUMBIA, MD 21045	Drawing Title	Scale: 1" = 30'
Des: CYH	Drawn: SAD	CLARIFICATION 01	Date: 07/12/12
			Sheet 1 of 1



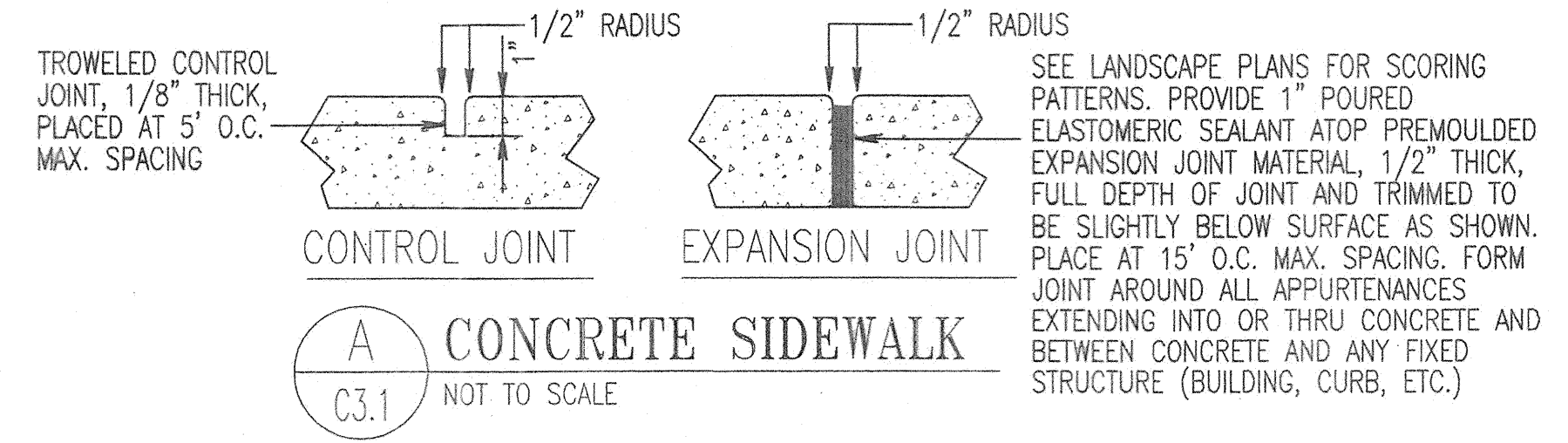
TEMPORARY CONSTRUCTION FENCE AND GATE  
NOT TO SCALE

LEGEND	
---145---	CONTOUR
145.50	SPOT ELEVATION
12"SD	STORM DRAIN
8"W	WATER
6"SAN	SANITARY SEWER
—E—E—	UNDERGROUND ELECTRIC
—T—T—	UNDERGROUND TELEPHONE
=====	CONCRETE CURB AND GUTTER
X	FENCE
[Hatched Box]	BUILDING
[Dotted Box]	CONCRETE PAVEMENT
[Horizontal Lines]	PLAYGROUND PAVEMENT
[Vertical Lines]	WATER VALVE
[Circle with X]	FIRE HYDRANT
[Circle with I]	STORM DRAIN INLET
[Circle with S]	STORM DRAIN MANHOLE
[Circle with S]	SANITARY SEWER MANHOLE
[Circle with P]	LIGHT POLE
[Circle with T]	TRANSFORMER
[Circle with X]	CONNECT TO EXISTING
[Circle with L]	LIMIT OF DISTURBANCE
[Circle with S]	SILT FENCE
[Circle with SF]	STABILIZED CONSTRUCTION ENTRANCE

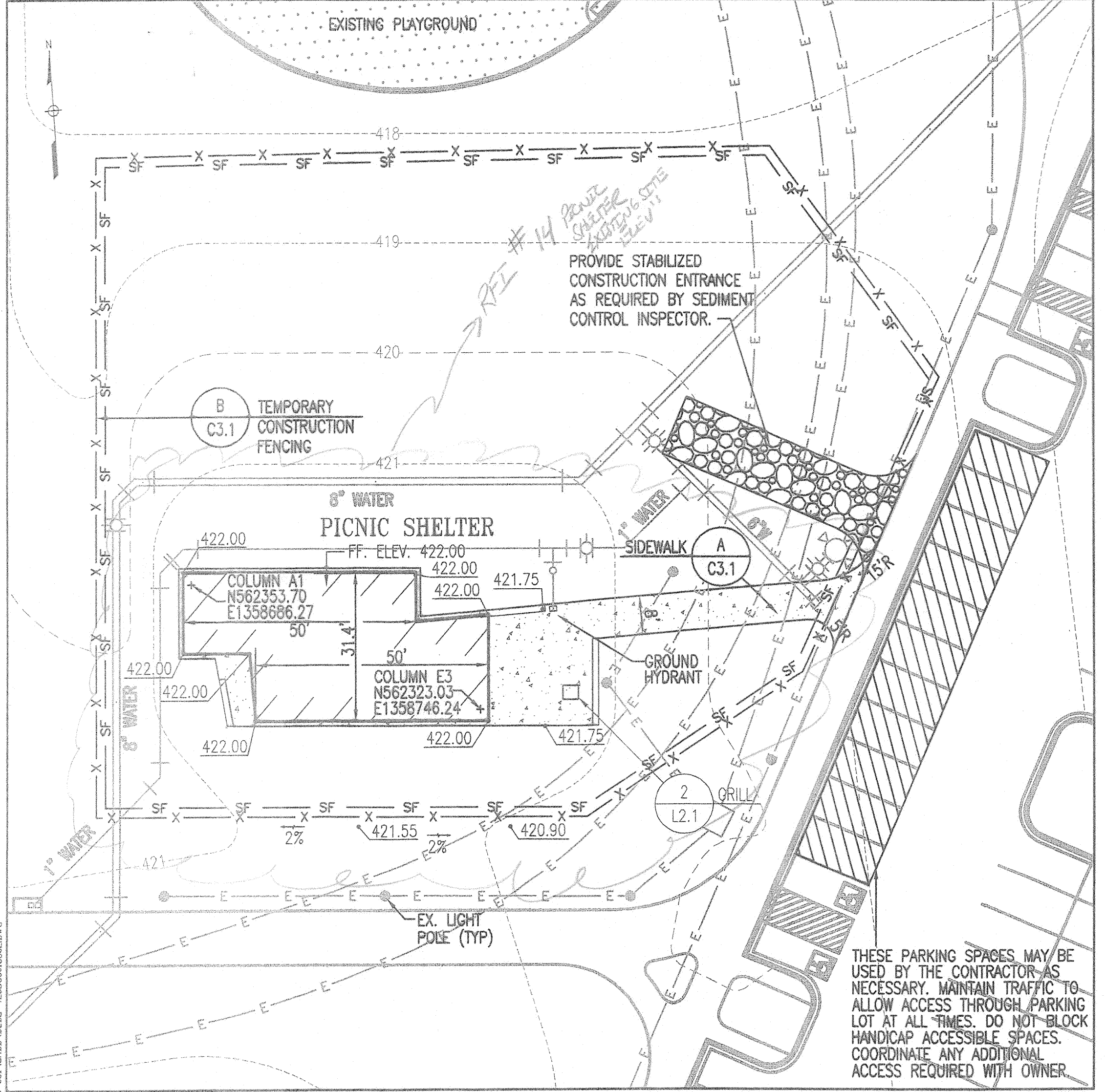
- NOTES**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR WRITTEN CERTIFICATION OF SOILS AT THE TIME OF FOOTING EXCAVATION, BY A MARYLAND STATE REGISTERED PROFESSIONAL ENGINEER OR CERTIFIED INSPECTION AGENCY. THIS CERTIFICATION SHALL BE SUBMITTED TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES, AND PERMITS. THIS CERTIFICATION SHALL INCLUDE THE DATE(S) OF INSPECTION(S), THE TYPE OF SOIL ENCOUNTERED, THE METHOD OF DETERMINING THE BEARING VALUE, THE ACTUAL BEARING VALUE AVAILABLE (A MINIMUM SOIL BEARING VALUE OF 3000 PSF REQUIRED BY DESIGN), AND SHALL REFERENCE THE BUILDING PERMIT NUMBER AND/OR EXACT PROJECT ADDRESS. THIS CERTIFICATION SHALL BE SUBMITTED TO THE HOWARD COUNTY BUILDING INSPECTOR (9250 BENDIX ROAD, COLUMBIA, MARYLAND 21045) PRIOR TO FINAL INSPECTION SIGN OFF.
  - THE LIMIT OF DISTURBANCE SHALL BE LIMITED TO THE AREA WITHIN THE CONSTRUCTION FENCING AS SHOWN. PROTECT ALL EXISTING LANDSCAPING, GRASS, PAVING, CURB, SIDEWALKS, LIGHT POLES, AND ANY EXISTING APPURTENANCES. ANY DAMAGE TO THE PARK SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER AND TO THE SATISFACTION OF THE OWNER, AT THE CONTRACTOR'S EXPENSE.
  - CONTRACTOR SHALL PROVIDE 8' HIGH TEMPORARY CONSTRUCTION FENCING AND ENSURE THE SITE IS SECURED AT THE END OF EACH WORK DAY. PROVIDE TEMPORARY SECURITY LIGHTING AFTER WORK HOURS. GROUND HYDRANT SHALL BE WOODFORD MODEL Y95 OR EQUAL WITH BACKFLOW PREVENTER.



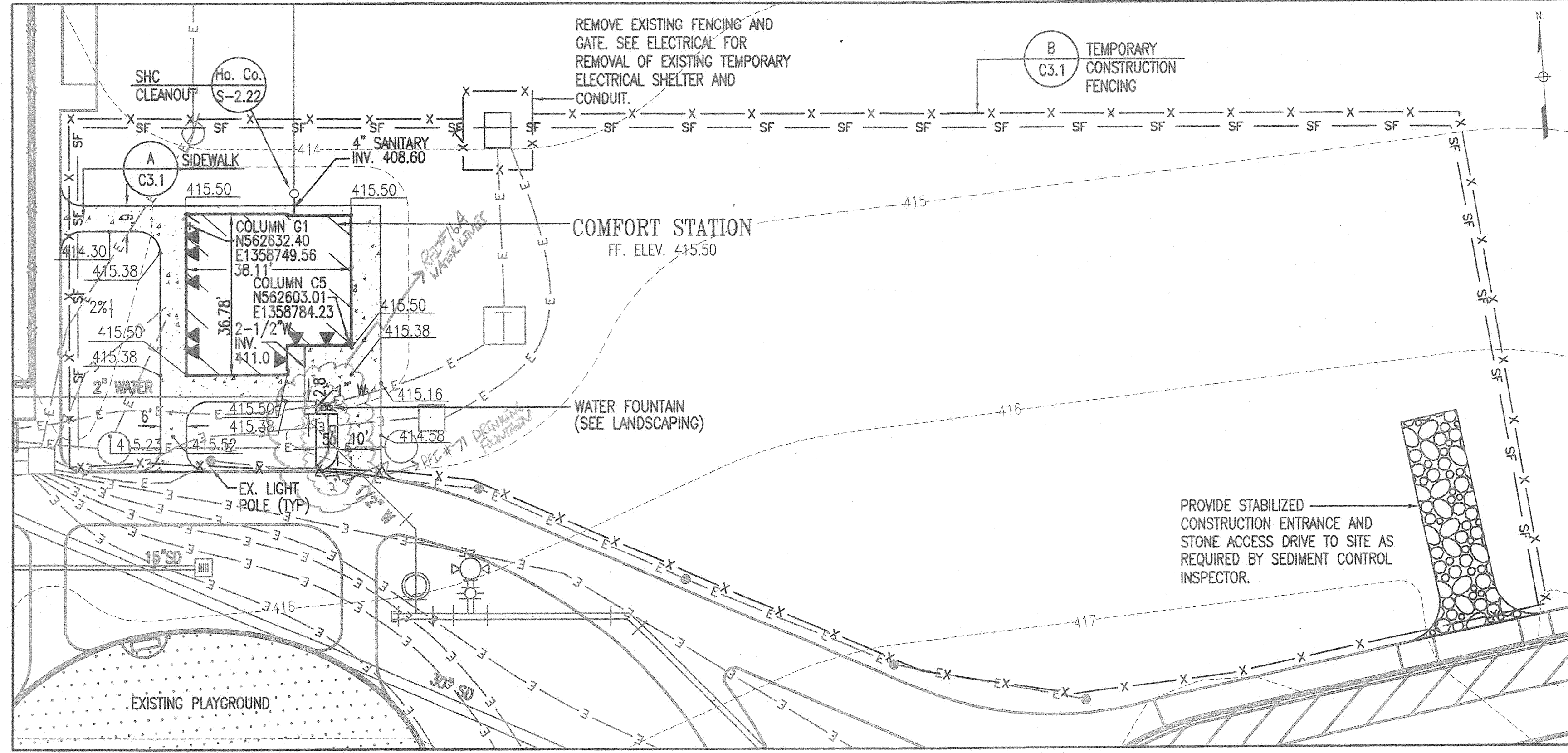
SECTION



CONCRETE SIDEWALK  
NOT TO SCALE



ENLARGED PICNIC SHELTER PLAN  
C3.1 1" = 20'



ENLARGED COMFORT STATION PLAN  
C3.1 1" = 20'

REVISIONS	
BID SET	11/28/11

**HOWARD COUNTY**  
DEPARTMENT OF RECREATION AND PARKS  
7120 OAKLAND MILLS ROAD  
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS  
9250 BENDIX ROAD  
ELLCOTT CITY, MD 21043

**WR&A**  
WHITMAN, REQUARDT & ASSOCIATES, LLP  
801 South Caroline Street, Baltimore, Maryland 21231  
Phone: 410-235-3450 Fax: 410-243-6716

**PROPERTY**

TAX MAP 36, GRID 5, PARCEL 3.72

ZONING: RC-DEO

ELECTION DISTRICT 3/7

**GRAPHIC SCALES**

16' 39.767 ft  
SCALE: 1" = 20'

**SIGNATURE**

STATE OF MARYLAND  
PROFESSIONAL ENGINEER  
No. 19376  
EXPIRATION DATE: 09/22/2013

*Anthony...*

**BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT**

ENLARGED SITE PLANS

Drawing No. **C3.1**

Scale: 1" = 20'

Date: 11/28/2011 Sheet 4 of 55

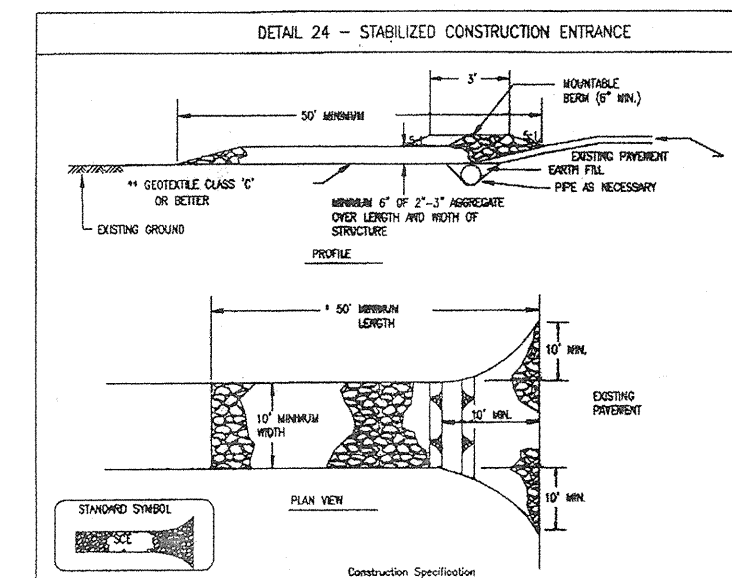
Des: CYH Drawn: CYH Check: AUO

**HOWARD SOIL CONSERVATION DISTRICT  
STANDARD SEDIMENT CONTROL NOTES**

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1; B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51), SOIL (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATING CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:  
TOTAL AREA OF SITE: 25.1 ACRES  
AREA DISTURBED: 13.3 ACRES  
AREA TO BE ROOFED OR PAVED ACRES: 0.13 ACRES  
AREA TO BE VEGETATIVELY STABILIZED ACRES: 1.17 ACRES  
TOTAL CUT CU. YDS.: 125 CU. YDS.  
TOTAL FILL: 0 CU. YDS.  
OFFSITE WASTE/BORROW AREA LOCATION: TO BE DETERMINED BY CONTRACTOR
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEMAED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROL, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORK DAY, WHICHEVER IS SHORTER.

**HOWARD SOIL CONSERVATION DISTRICT  
TEMPORARY SEEDING NOTES**

- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE RE-DISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDBED PREPARATION: --- LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS: --- APPLY 600 IBS/ACRE 10-10-10 FERTILIZER (14 IBS/1000 SQ. FT.).
- SEEDING: --- FOR PERIODS MARCH 1 --- APRIL 30 AND FROM AUGUST 15 --- OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (32 IBS/1000 SQ. FT.), FOR THE PERIOD MAY 1 --- AUGUST 14, SEED WITH 3 IBS/ACRE OF WEEPING LOVEGRASS (07 IBS/1000 SQ. FT.), FOR THE PERIOD NOVEMBER 16 --- FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS/ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SO2.
- MULCHING: --- APPLY 1-1/2 TO 2 TONS/ACRE (70 TO 90 IBS/1000 SQ. FT.) OF UNROTTED NEED-FREE, SMALL STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL. PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPE 8 FT. OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.
- REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.



- Length - minimum of 30' (30' for single roadway use).
- Width - 12' minimum, should be placed at the existing road to provide a turning radius.
- Location - (Note: this detail should be placed on the existing road after the grading is complete. This plan requires approval for the project before being placed on the site.)
- Finish - should be placed 2" to 3" or 4" or 5" or 6" or 7" or 8" or 9" or 10" or 11" or 12" or 13" or 14" or 15" or 16" or 17" or 18" or 19" or 20" or 21" or 22" or 23" or 24" or 25" or 26" or 27" or 28" or 29" or 30" or 31" or 32" or 33" or 34" or 35" or 36" or 37" or 38" or 39" or 40" or 41" or 42" or 43" or 44" or 45" or 46" or 47" or 48" or 49" or 50" or 51" or 52" or 53" or 54" or 55" or 56" or 57" or 58" or 59" or 60" or 61" or 62" or 63" or 64" or 65" or 66" or 67" or 68" or 69" or 70" or 71" or 72" or 73" or 74" or 75" or 76" or 77" or 78" or 79" or 80" or 81" or 82" or 83" or 84" or 85" or 86" or 87" or 88" or 89" or 90" or 91" or 92" or 93" or 94" or 95" or 96" or 97" or 98" or 99" or 100" or 101" or 102" or 103" or 104" or 105" or 106" or 107" or 108" or 109" or 110" or 111" or 112" or 113" or 114" or 115" or 116" or 117" or 118" or 119" or 120" or 121" or 122" or 123" or 124" or 125" or 126" or 127" or 128" or 129" or 130" or 131" or 132" or 133" or 134" or 135" or 136" or 137" or 138" or 139" or 140" or 141" or 142" or 143" or 144" or 145" or 146" or 147" or 148" or 149" or 150" or 151" or 152" or 153" or 154" or 155" or 156" or 157" or 158" or 159" or 160" or 161" or 162" or 163" or 164" or 165" or 166" or 167" or 168" or 169" or 170" or 171" or 172" or 173" or 174" or 175" or 176" or 177" or 178" or 179" or 180" or 181" or 182" or 183" or 184" or 185" or 186" or 187" or 188" or 189" or 190" or 191" or 192" or 193" or 194" or 195" or 196" or 197" or 198" or 199" or 200" or 201" or 202" or 203" or 204" or 205" or 206" or 207" or 208" or 209" or 210" or 211" or 212" or 213" or 214" or 215" or 216" or 217" or 218" or 219" or 220" or 221" or 222" or 223" or 224" or 225" or 226" or 227" or 228" or 229" or 230" or 231" or 232" or 233" or 234" or 235" or 236" or 237" or 238" or 239" or 240" or 241" or 242" or 243" or 244" or 245" or 246" or 247" or 248" or 249" or 250" or 251" or 252" or 253" or 254" or 255" or 256" or 257" or 258" or 259" or 260" or 261" 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RFI Transmittal

RFI ID: RFI-070  
Transmittal ID: 00376  
Date Sent: 2/13/2013

Project: Blandair Park-Phase I  
Number: 0811.1

To: Bert Bunn  
Ikhana  
3660 Bessemer Road  
Mount Pleasant, SC 29466  
United States  
843-566-7800 (Phone)  
843-566-7841 (Fax)

From: Brian Dunn  
GWWO, Inc./Architects  
800 Wyman Park  
Suite 300  
Baltimore, MD 21211  
US  
(410) 332-1009 x5076 (Phone)  
(410) 332-0038 (Fax)

Subject: Relocate Drinking Fountain  
Via: Email  
Purpose: Answered

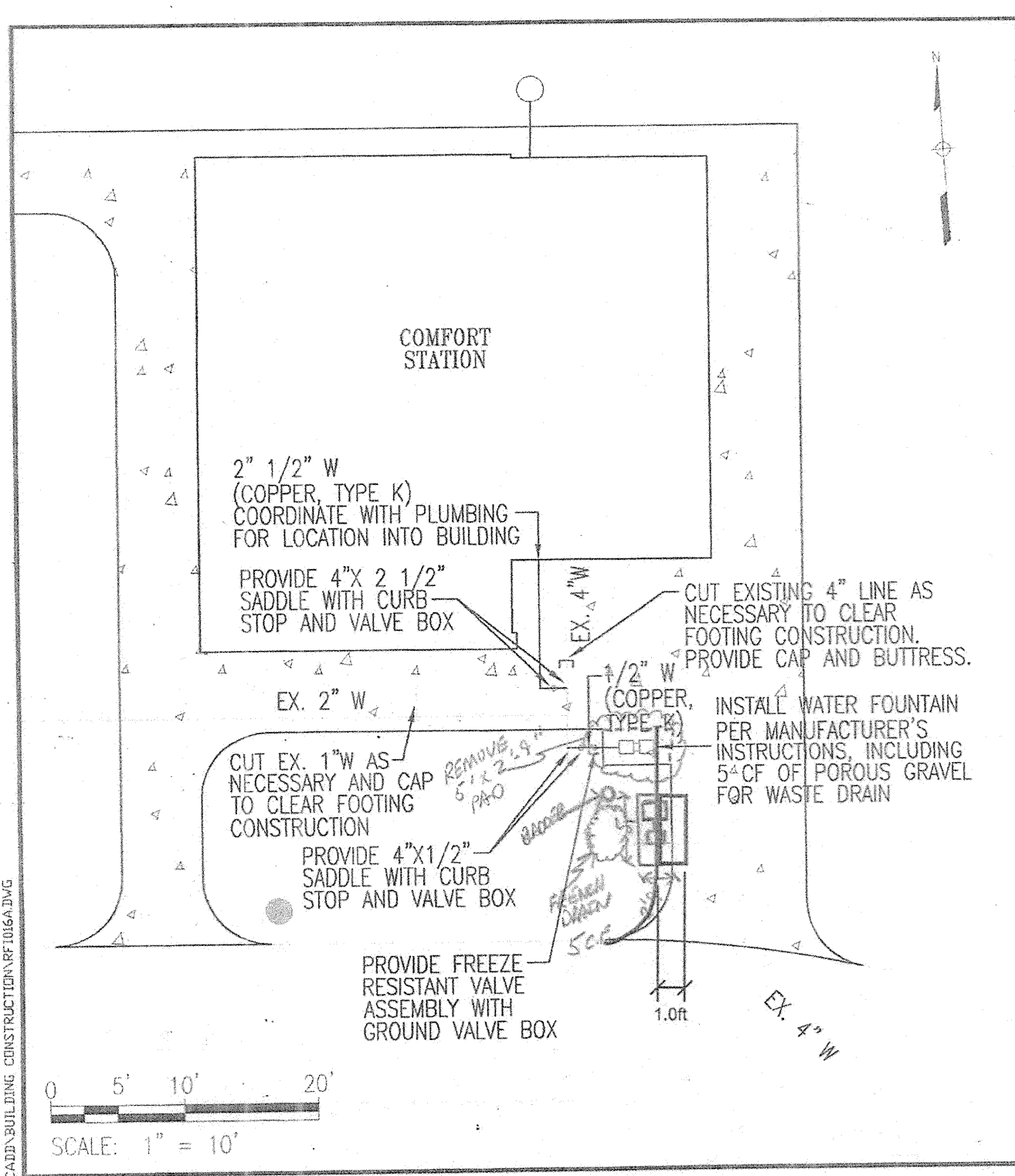
Question: On sheet L2.1 it shows the location of the Drinking Fountain. There are too many conflicts that occur in this general area due to: existing underground utilities, LP ground ring, length of lines connecting from bladder to drinking fountain, and installation of the 5 C.F. underground french drain.

Suggestion: Remove the 5'-0"x2'-9" CONC pad and location of drinking fountain and install bladder with underground french drain shown in the attached document. The proposed relocation of the drinking fountain will also allow the ground valve box to be placed in the ground in lieu of the concrete sidewalk.

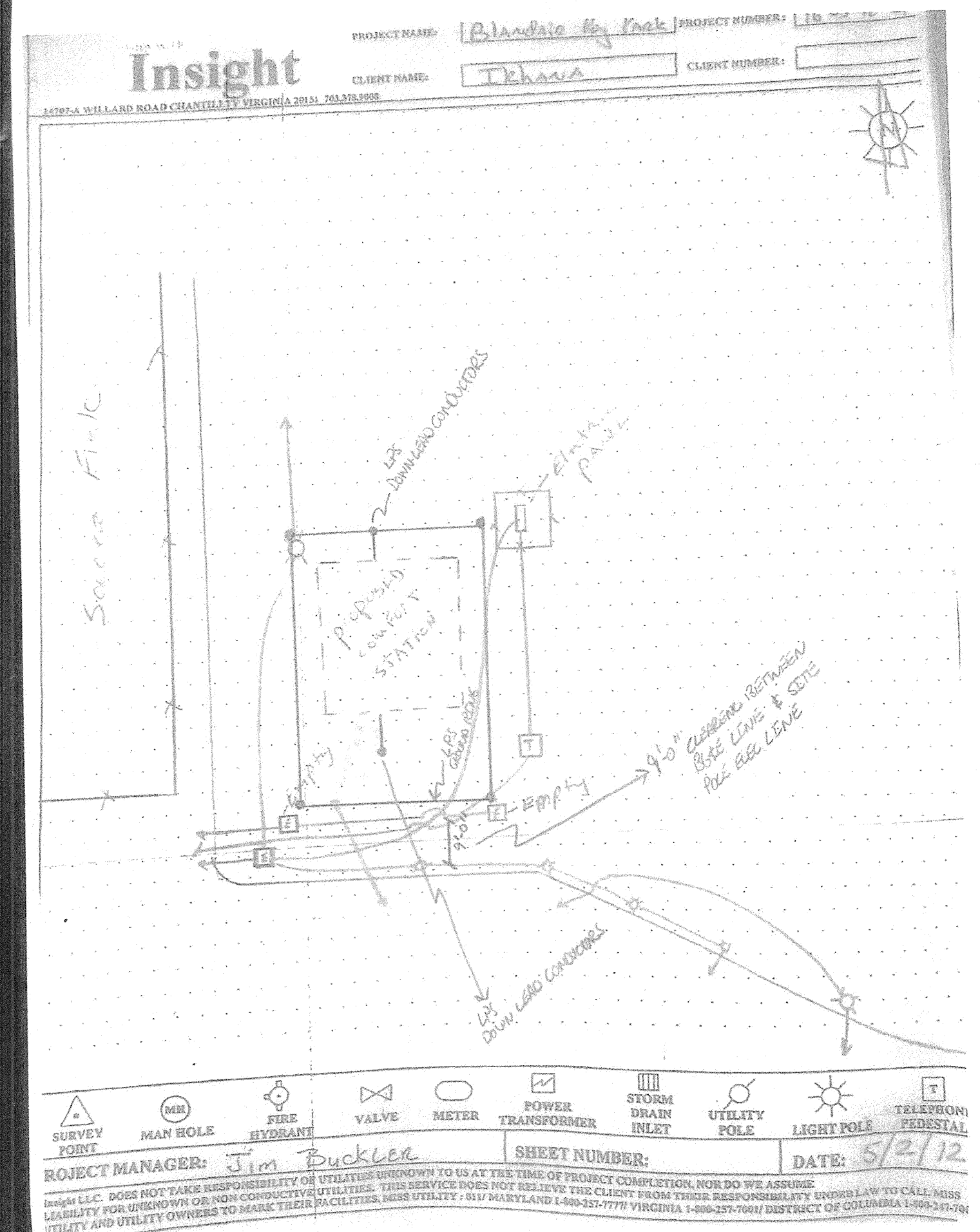
Answer: See attached response by WRA

CC: Walt Lewis(Ikhana)  
Mark Kovach(Howard County Department of Public Works)  
Bill Roester(Howard County Department of Public Works)  
Steve Mack(WRA)  
Jim Jett(Whitman, Requardt & Associates, LLP)  
Carl Scheffel(Whitman, Requardt & Associates, LLP)

Quantity	Title	Number	Date	Scale	Size
1	Copy of RFI #70 Re-Locate Drinking Fountain @ Comfort Station.pdf		2/13/2013		



<p>WHITMAN, REQUARDT &amp; ASSOCIATES, LLP 2250 BENDY ROAD COLUMBIA, MD 21045</p>	Client	Project Name	Drawing No.
	HOWARD COUNTY	BLANDAIR REGIONAL PARK - PHASE 1	RFI 016A-1
	Date: 6/20/12	Drawing Title	Check: AUO
		RFI 016A	Drawn: CYH
			Des: CYH



PROJECT MANAGER: <u>Jim Duckler</u> SHEET NUMBER: _____ DATE: <u>5/2/12</u>									



REVISIONS	
BID SET	11/28/11

**HOWARD COUNTY**

DEPARTMENT OF RECREATION AND PARKS  
7120 OAKLAND MILLS ROAD  
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS  
9250 BENDIX ROAD  
ELLCOTT CITY, MD 21043

**WR&A**

WHITMAN, REQUARDT & ASSOCIATES, LLP  
801 South Caroline Street, Baltimore, Maryland 21231  
Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7

GRAPHIC SCALES

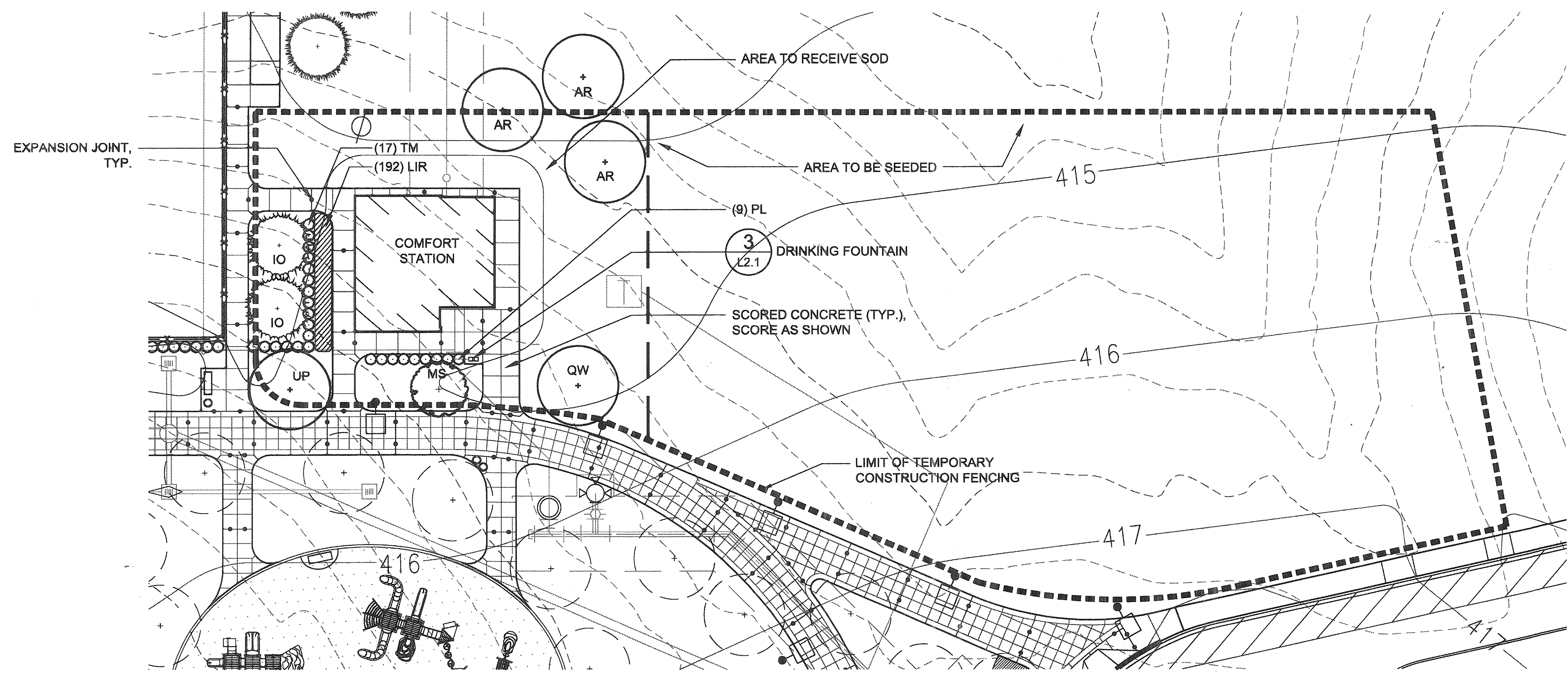
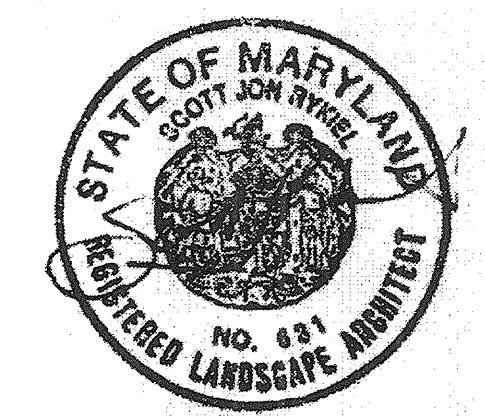
SIGNATURE

**BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT**

Comfort Station / Picnic Shelter Plans

Drawing No. **L1.1**

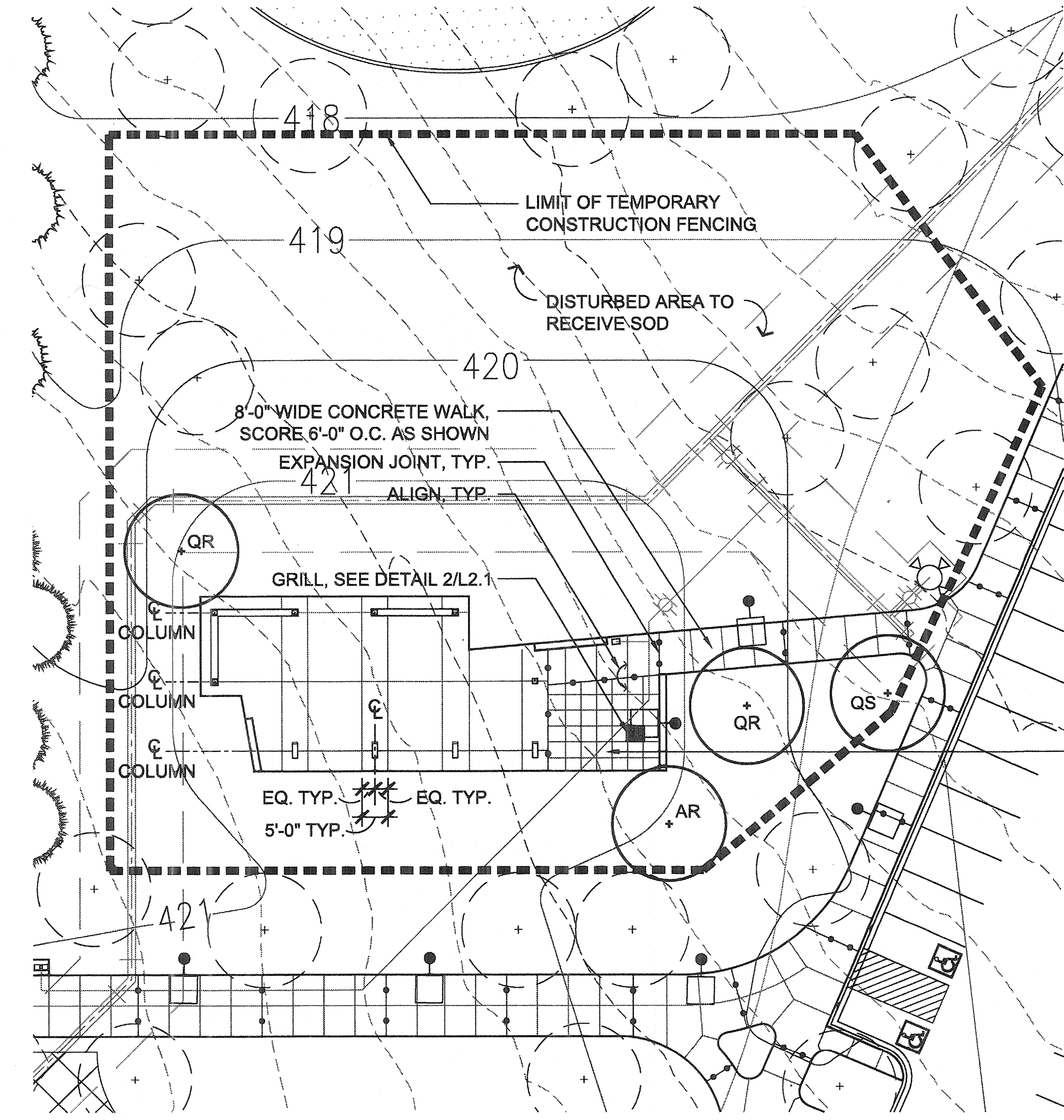
Scale: AS SHOWN  
Date: 11/28/2011 Sheet 6 of 55  
Des: CB Drawn: NS Check: CB



**1 Comfort Station Enlargement**  
1"=20'-0"

**PLANT LIST (THIS SHEET ONLY)**

Qty.	Key	Botanical/Common Name	Size	Root	Comments
<b>SHADE TREES</b>					
4	AR	Acer rubrum 'Red Sunset' / Red Sunset Maple	2-1/2" Cal.	B&B	Full canopy, central leader
2	QR	Quercus rubra / Red Oak	2-1/2" Cal.	B&B	Full canopy, central leader
1	QS	Quercus coccinea / Scarlet Oak	2-1/2" Cal.	B&B	Full canopy, central leader
1	QW	Quercus phellos 'Hightower' / Hightower Willow Oak	2-1/2" Cal.	B&B	Full canopy, central leader
1	UP	Ulmus parvifolia 'Altee' / Altee Elm	2-1/2" Cal.	B&B	Full canopy, central leader
<b>EVERGREEN TREES</b>					
2	IO	Ilex opaca 'Miss Helen' / Miss Helen American Holly	6' Ht.	B&B	Full / Heavy
<b>UNDERSTORY TREES</b>					
1	MS	Magnolia x soulangiana / Saucer Magnolia	10' Ht.	B&B	Multi-Stem; 3 cane min., 5 cane max. Specimen
<b>SHRUBS</b>					
9	PL	Prunus laurocerasus 'Otto Luyken' / Otto Luyken Cherry Laurel	24" Ht/Spd.	B&B or Cont.	Full
17	TM	Taxus x media 'Densiformis' / Dense Yew	30" Ht/Spd.	B&B	Full
<b>GROUND COVER / GRASSES / PERENNIALS</b>					
192	LIR	Liriope muscari 'Big Blue' / Big Blue Liriope	#1	Cont.	12" O.C.



NOTE:  
CONTRACTOR TO PROVIDE PROTECTIVE MEASURES FOR EXISTING TREES TO ENSURE NO DAMAGE DURING CONSTRUCTION.

SCORE 3'-0" x 3'-0" AS SHOWN. START SCORING WITH GRILL CENTERED IN 3'-0" x 3'-0" SQUARE A WORK OUT.

**2 Picnic Shelter Enlargement**  
1"=20'-0"

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION \_\_\_\_\_ DATE \_\_\_\_\_

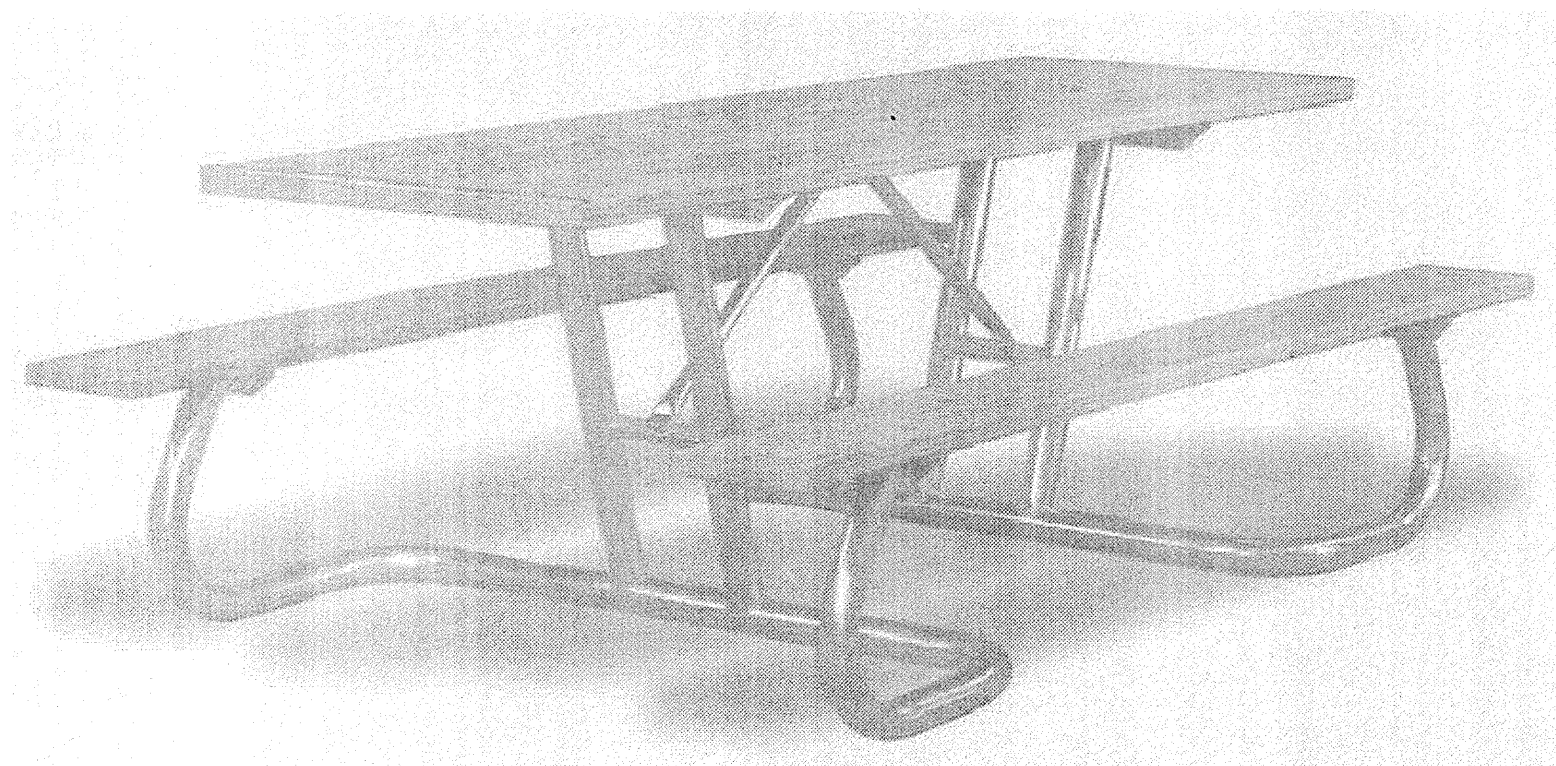
CHIEF, DIVISION OF LAND DEVELOPMENT \_\_\_\_\_ DATE \_\_\_\_\_

DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

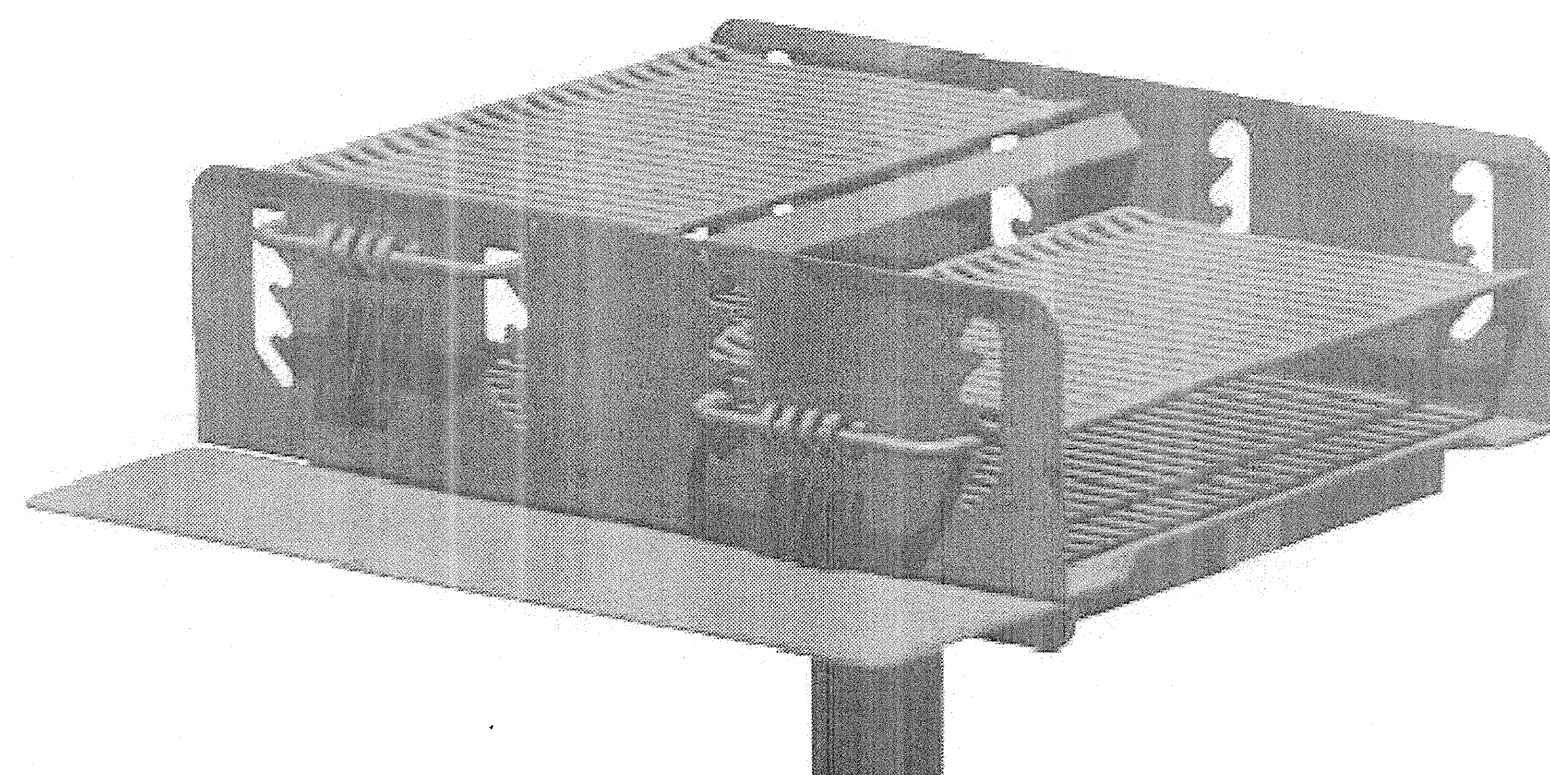
COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT



Model WXTH/G-8UP by Pilot Rock  
8' accessible park table  
Recycled plastic boards, color: cedar  
Frame color: hot dip galvanized finish

Total Quantity: Eleven (11)



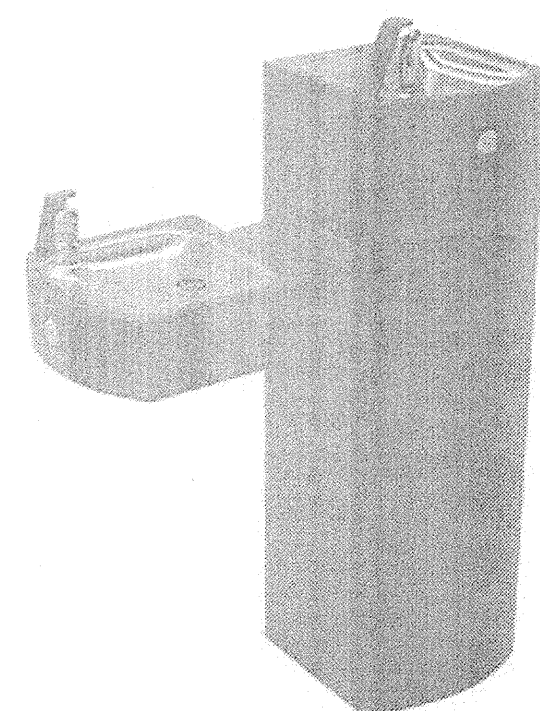
Model P-1000/S B7 by Pilot Rock  
In-ground mounting option with one standard shelf  
Mount per manufacturer's recommendation(Confirm with Structural dwgs.)

MANUFACTURER INFORMATION:

Pilot Rock / R.J. Thomas Manufacturing Co., Inc.  
PO Box 946  
5648 Hwy. 59 South  
Cherokee, Iowa 51015  
1-800-762-5002  
www.pilotrock.com

1 Picnic Table  
NTS

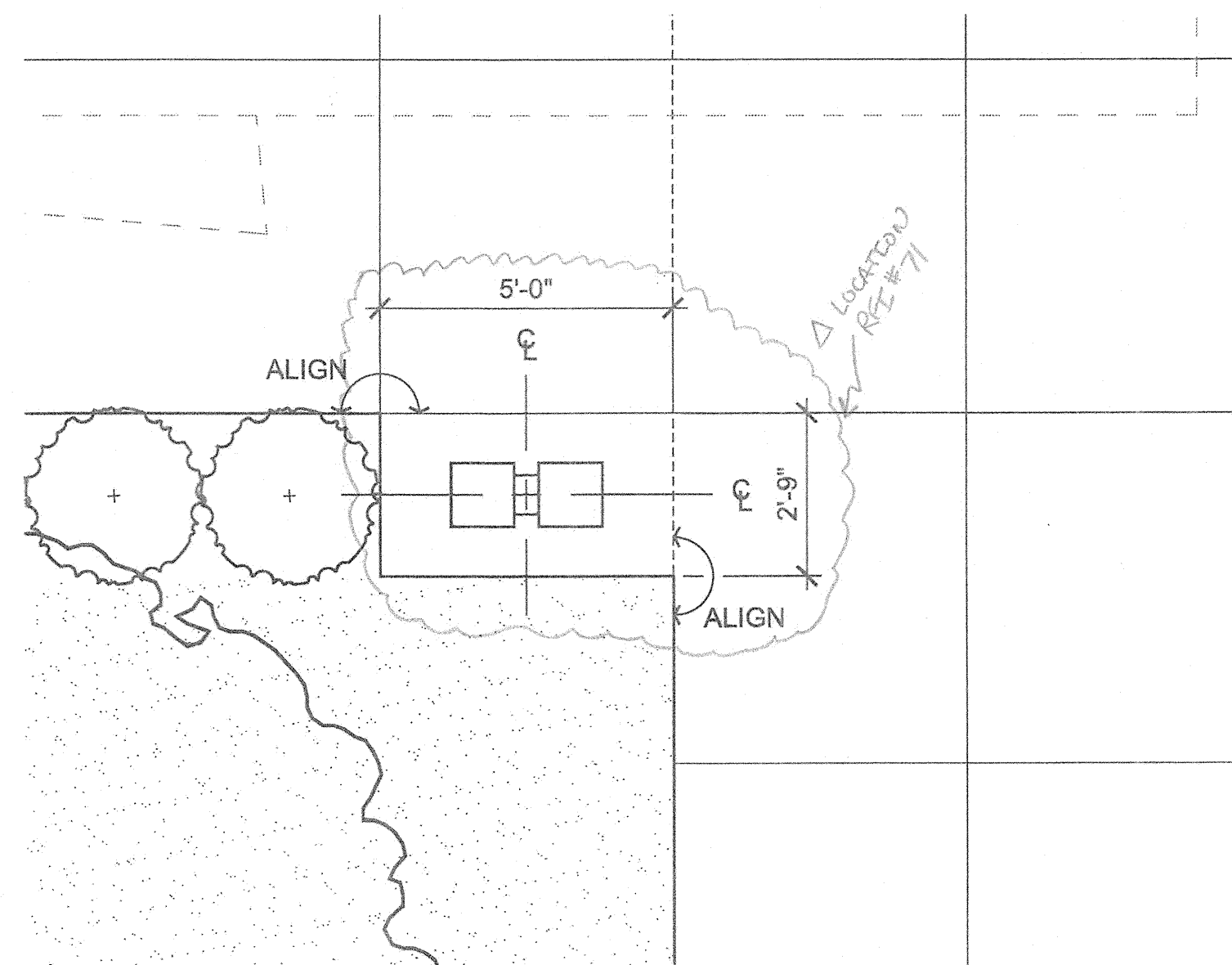
2 Grill  
NTS



Model GSM55 by Murdock-Super Secur  
Bi-level pedestal mount, square steel  
Color: bronze, powder coat (available through Acorn Engineering Company)  
Accessories  
HB3: hose bib, loose key, vandal resistant, with hose threaded outlet/VB  
JF2: jug filler, recessed  
NP2: non-pollutable, freeze resistant valve

MANUFACTURER INFORMATION:  
Murdock-Super Secur  
PO Box 3527  
City of Industry, CA 91744  
1-800-453-7465  
www.murdock-supersecur.com

Total drinking fountains: 3



PLAN ENLARGEMENT

3 Drinking Fountain  
NTS

REVISIONS	
BID SET	11/28/11

HOWARD COUNTY

DEPARTMENT OF  
RECREATION AND PARKS  
7120 OAKLAND MILLS ROAD  
COLUMBIA, MD 21046

DEPARTMENT OF  
PUBLIC WORKS  
9250 BENDIX ROAD  
ELLCOTT CITY, MD 21043



WHITMAN, REQUARDT  
& ASSOCIATES, LLP  
801 South Caroline Street, Baltimore, Maryland 21231  
Phone: 410-238-3400 Fax: 410-243-8716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7

GRAPHIC SCALES

SIGNATURE

BLANDAIR REGIONAL  
PARK - PHASE 1  
BUILDING CONTRACT

Hardscape Details

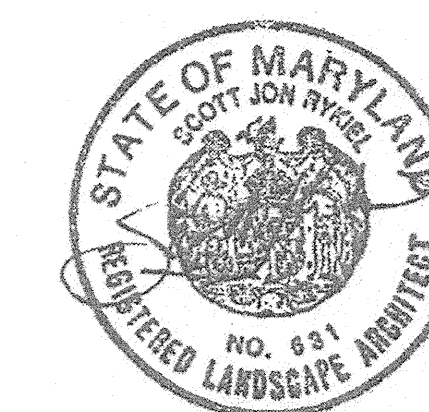
Drawing No.

L2.1

Scale: NONE

Date: 11/28/2011 Sheet 7 of 55

Des: CB Drawn: NS Check: CB



APPROVED: DEPARTMENT OF PLANNING AND ZONING

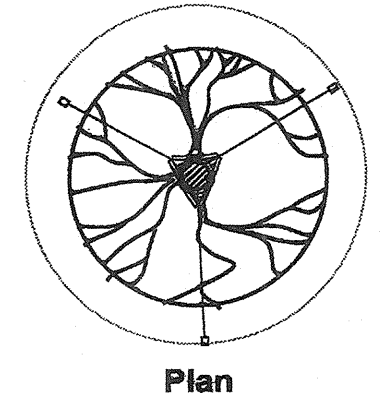
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
DATE  
CHIEF, DIVISION OF LAND DEVELOPMENT  
DATE  
DIRECTOR  
DATE

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

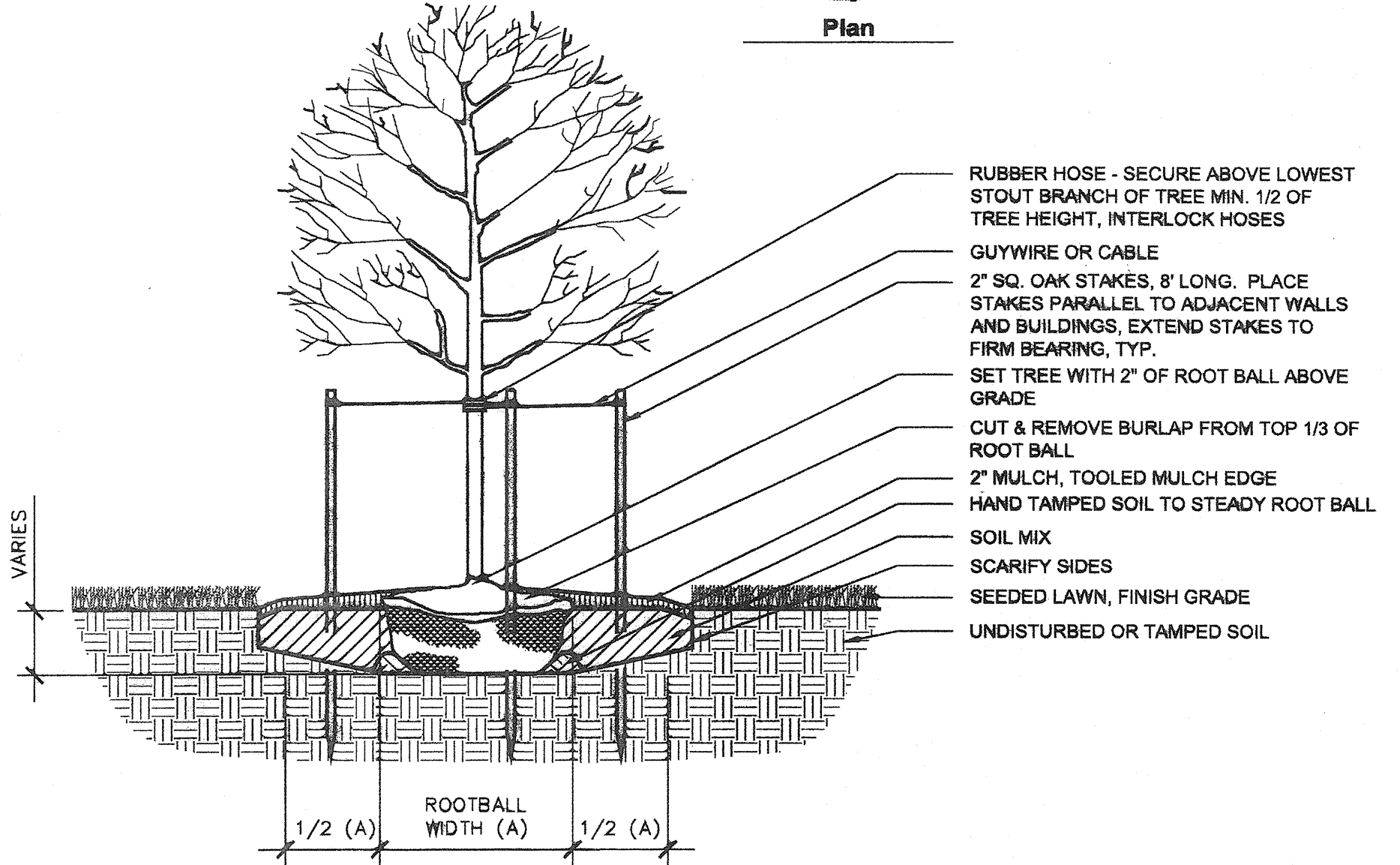
COUNTY HEALTH OFFICER  
HOWARD COUNTY HEALTH DEPARTMENT  
DATE

**Notes:**

1. DO NOT CUT CENTRAL LEADER.
2. FOR PLANTS IN WIRE BASKETS, REFER TO SPECIFICATIONS.
3. DO NOT PLACE MULCH AGAINST TRUNK.
4. TREES TO HAVE SINGLE LEADER.
5. CUT AND REMOVE TOP HALF OF WIRE BASKETS.



Plan

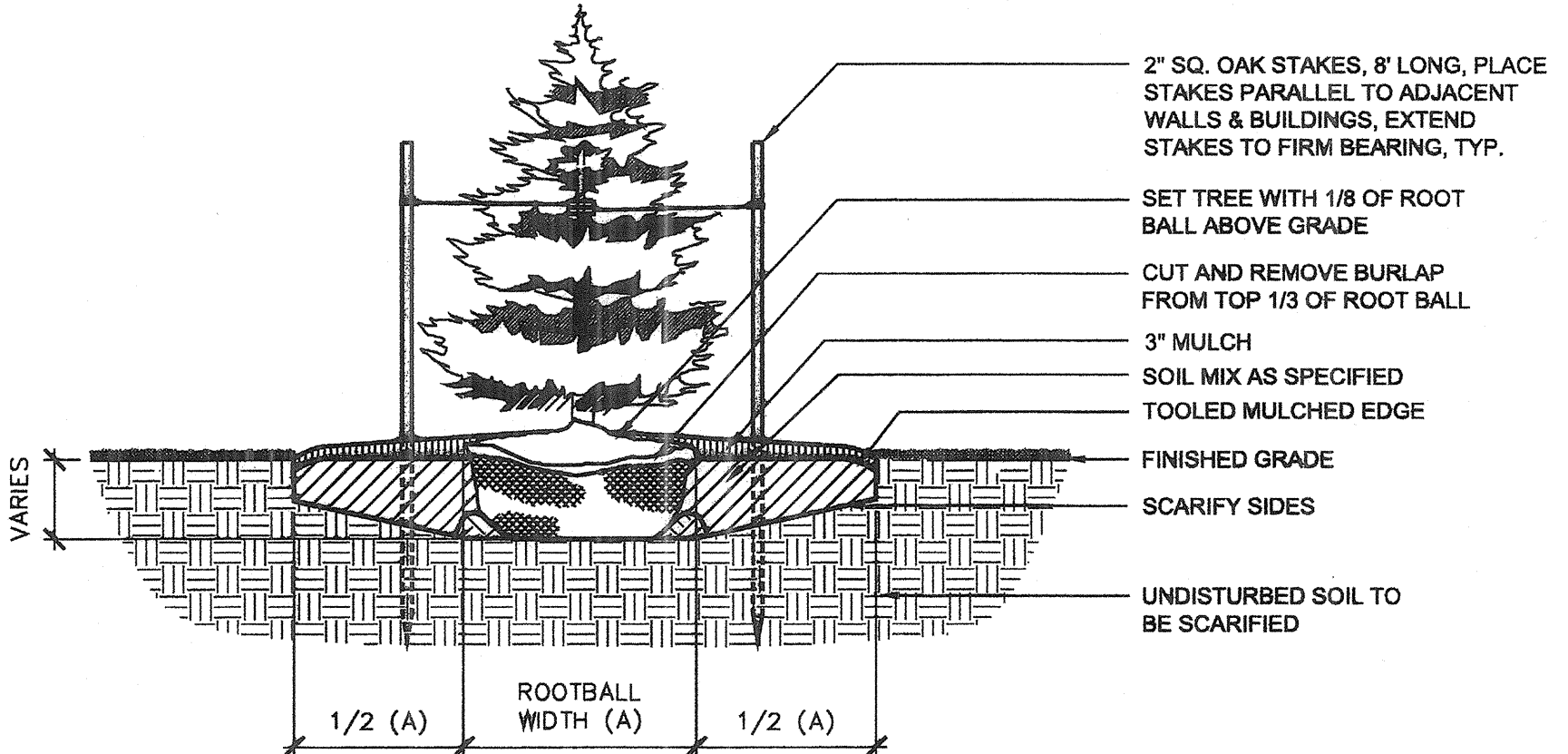


**1 Typical Deciduous Tree Planting**

Scale: 1/2" = 1'-0"

**Notes:**

1. NEVER CUT CENTRAL LEADER.
2. FOR PLANTS IN WIRE BASKETS, REFER TO SPECIFICATIONS.
3. TREES TO HAVE SINGLE LEADER.
4. CUT AND REMOVE TOP HALF OF WIRE BASKETS.
5. DO NOT PLACE MULCH AGAINST TRUNK.

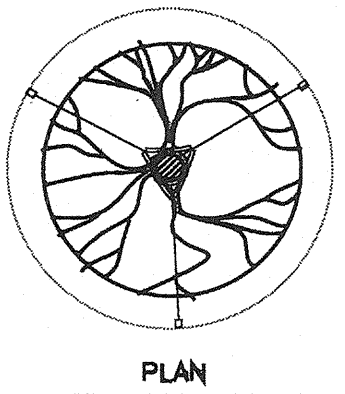


**2 Typical Evergreen Tree Planting**

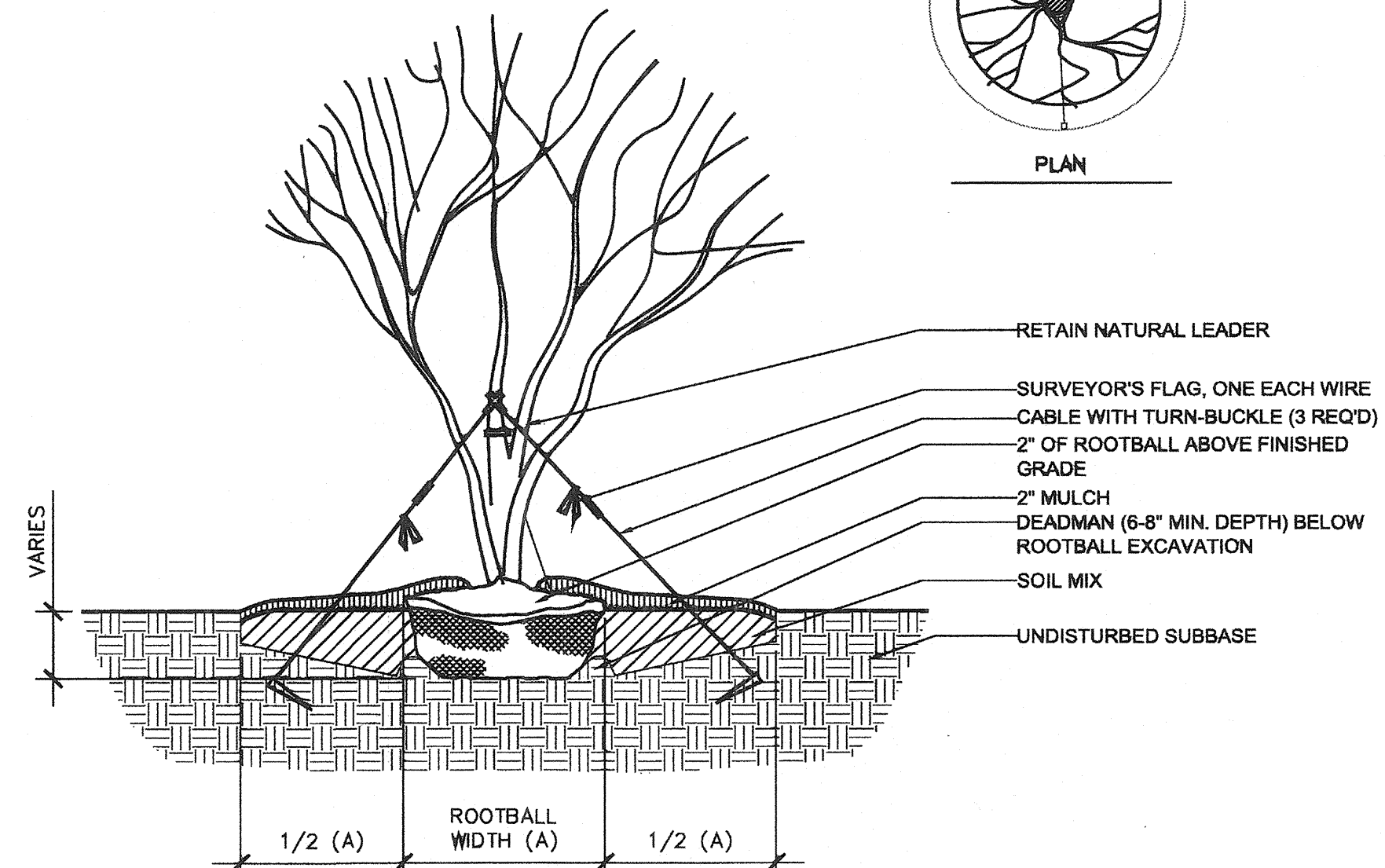
Scale: 1/2" = 1'-0"

**Notes:**

1. FOR BAB TREES, REMOVE TOP 1/3 OF BALL WRAP.
2. CUT WIRE BASKET IN AT LEAST FOUR LOCATIONS CIRCLING ROOTBALL.
3. DO NOT PLACE MULCH AGAINST TRUNK.



Plan

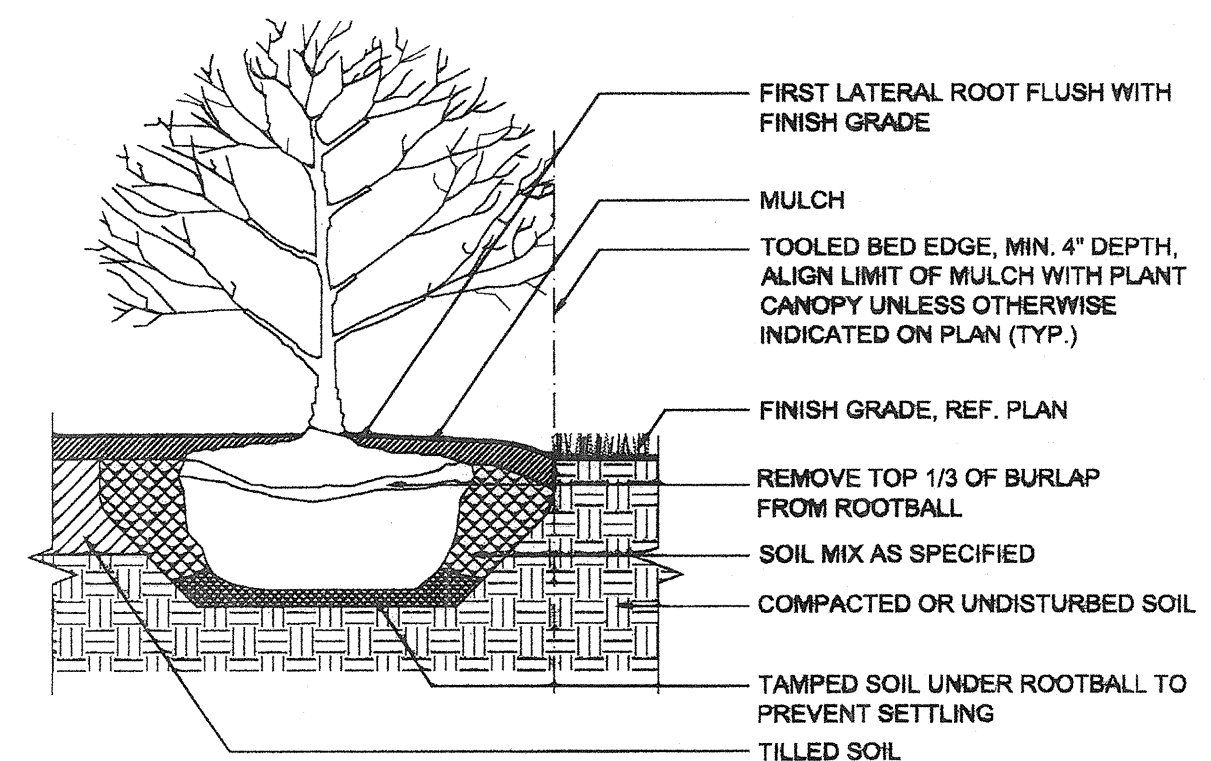


**3 Typical Flowering Tree Planting**

Scale: 1/2" = 1'-0"

SEQUENCE OF CONSTRUCTION (GENERAL), REFER TO SPECIFICATIONS

1. STAKE OUT PLANT/BED LOCATIONS.
2. CUT EDGE OF PLANT BED.
3. TILL SOIL AND APPLY AMENDMENTS TO ENTIRE PLANTING AREA.
4. APPLY PRE-EMERGENT HERBICIDE (TWO WEEKS PRIOR TO PLANTING).
5. INSTALL PLANTS.
6. INSTALL FERTILIZER TABLETS IN EACH PLANT PIT.
7. PLACE BACKFILL.
8. WATER EACH INDIVIDUAL PLANT THOROUGHLY.
9. PLACE MULCH OVER ENTIRE PLANT BED.
10. WATER ENTIRE PLANT BED THOROUGHLY.



**4 Typical Shrub Planting**

Scale: 3/8" = 1'

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
DIRECTOR	DATE

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

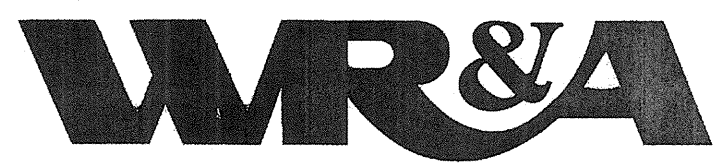
COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT	DATE
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REVISIONS	
BID SET	11/28/11

HOWARD COUNTY

DEPARTMENT OF RECREATION AND PARKS  
7120 OAKLAND MILLS ROAD  
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS  
9250 BENDIX ROAD  
ELLCOTT CITY, MD 21043



WHITMAN, REQUARDT & ASSOCIATES, LLP  
801 South Caroline Street, Baltimore, Maryland 21231  
Phone: 410-235-3450 Fax: 410-243-6716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72  
ZONING: RC-DEO  
ELECTION DISTRICT 3/7

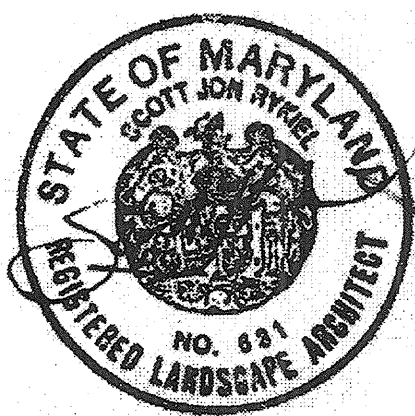
GRAPHIC SCALES

SIGNATURE

BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

Planting Details

Drawing No.  
**L2.2**



Scale: AS SHOWN	Date: 11/28/2011	Sheet 8 of 55
Des: CB	Drawn: NS	Check: CB

REVISIONS	

**HOWARD COUNTY**  
 DEPARTMENT OF  
 RECREATION AND PARKS  
 7120 OAKLAND MILLS ROAD  
 COLUMBIA, MD 21046

**DEPARTMENT OF  
 PUBLIC WORKS**  
 9250 BENDIX ROAD  
 ELLICOTT CITY, MD 21043

**WR&A**

**WHITMAN, REQUARDT  
 & ASSOCIATES, LLP**  
 801 South Caroline Street, Baltimore, Maryland 21231  
 Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3.72

ZONING: RC-DEO

ELECTION DISTRICT 3/7

GRAPHIC SCALES

SIGNATURE



I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NUMBER: 19992 - EXPIRATION DATE: 10/15/2012

**BLANDAIR REGIONAL  
 PARK - PHASE 1  
 BUILDING CONTRACT**

ARCHITECTURAL KEYS,  
 ABBREVIATIONS & KEYNOTES

Drawing No.  
**A0.0**

Scale: As indicated

Date: 11/28/2011 Sheet 9 of 55

Des: Drawn: MDP Check: LAA

KEYNOTE	DESCRIPTION
033000-A	CONCRETE SLAB ON GRADE; REFER TO STRUCTURAL DOCUMENTS FOR FULL DESCRIPTION
033000-B	CONCRETE FOOTING; REFER TO STRUCTURAL DOCUMENTS FOR FULL DESCRIPTION
033000-E	VAPOR BARRIER
033300-A	CONCRETE COLUMN; ARCHITECTURAL CONCRETE, REFER TO STRUCTURAL
042000-A	CONCRETE MASONRY UNIT; NOMINAL WIDTH AS INDICATED
042000-B	HORIZONTAL JOINT REINFORCING
042000-E	BOND BEAM; REFER TO STRUCTURAL DOCUMENTS FOR FULL DESCRIPTION
042000-H	NO. 15 ASPHALT FELT
044300-A	STONE VENEER; NOMINAL WIDTH AS INDICATED
044300-B	MASONRY TIE
054000-A	2" Z' FURRING CHANNEL AT 16" O.C. NON-LOAD BEARING STEEL STUDS AT 16" O.C.; SIZE AS INDICATED
054000-B	STEEL PLATE VERTICAL SIDING, 1/2" THICK - SEE DRAWING 343.2 FOR TYPICAL LAYOUT PATTERN
055000-F	WOOD BLOCKING
061000-B	WOOD SHIM
061000-C	NOT USED
061500-A	TONGUE AND GROOVE WOOD ROOF DECKING
061600-A	EXTERIOR PLYWOOD WALL SHEATHING, THICKNESS AS INDICATED
061600-B	BUILDING WRAP
061600-D	EXTERIOR PLYWOOD ROOF SHEATHING, THICKNESS AS INDICATED
061800-A	CLUE LAMINATED BEAM (REFER TO STRUCTURAL DOCUMENTS FOR FULL DESCRIPTION)
062013-A	CEMENT BOARD SIDING (5/16")
062013-B	CEMENT BOARD SIDING (7/16")
062013-C	CEMENT BOARD BATTEN
062013-D	3/4" THICK CEMENT BOARD TRIM; SIZE AS INDICATED
062013-F	EXTRUDED ALUMINUM VERTICAL REVEAL
062013-F	EXTRUDED ALUMINUM 'J' CHANNEL
062013-G	EXTRUDED ALUMINUM OUTSIDE CORNER
062013-H	EXTRUDED ALUMINUM INSIDE CORNER
062013-I	EXTRUDED ALUMINUM 'Z' FLASHING
064023-A	WOOD SILL, SIZE AS INDICATED
064023-B	FINISH WOOD TRIM, SIZE AS INDICATED
071310-A	SHEET WALL FLASHING
071310-B	SHEET WATERPROOFING
071310-C	TERMINATION MASTIC
072100-A	RIGID INSULATION; THICKNESS AS INDICATED
072100-B	FACED FIBERGLASS BLANKET INSULATION; THICKNESS AS INDICATED
076100-A	STANDING SEAM METAL ROOF
076100-B	METAL ROOF UNDERLAYMENT
076100-C	CONTINUOUS LOCKING METAL CLEAT
076100-D	SNOW GUARDS
076100-E	METAL FASCIA WITH DRIP EDGE
076100-F	SELF-ADHERING HIGH TEMPERATURE SHEET
076100-G	METAL PEAK CAP
076100-H	METAL 'Z' STRIP
076100-I	METAL RETURN
076100-J	METAL ROOF FLASHING
076200-A	BRAKE METAL
076200-B	SHEET METAL FLASHING
076200-E	METAL REGLET COUNTER FLASHING
076200-F	METAL REGLET
079200-A	JOINT SEALANT AND BACKER ROD
081743-A	FIBERGLASS REINFORCED POLYESTER DOORS
081743-B	ALUMINUM DOOR FRAME
084113-A	ALUMINUM STOREFRONT SYSTEM
088000-A	GLAZING
089000-A	FIXED METAL WALL LOUVER
089000-B	METAL LOUVER SILL
089000-C	OPERABLE METAL WALL LOUVER
093000-A	CERAMIC WALL TILE
093000-B	CEMENTITIOUS BACKER BOARD, SIZE AS INDICATED
101200-A	DISPLAY CASE WITH PLASTIC-IMPREGNATED CORK TACKBOARD

	CMU MASONRY		STEEL (LARGE SCALE)
	CONCRETE (SECTION & ELEVATION)		STEEL (SMALL SCALE)
	GRAVEL FILL		FLASHING
	PLYWOOD		SEALANT AND BACKER ROD
	BLOCKING (INTERMITTENT AS REQ)		GLASS (ELEVATION)
	END GRAIN LUMBER (CONTINUOUS)		CMU (ELEVATION)
	BATT/ACOUSTICAL INSULATION		CEMENT BOARD SIDING & TRIM
	RIGID INSULATION		SOLID WOOD DECKING, TRIM & TIMBERS
	EARTH FILL		PROTECTION BOARD
	STONE VENEER (SECTION)		GLULAM (SECTION)
	STONE VENEER (ELEVATION)		

**KEY TO MATERIALS** (ARCHITECTURAL DRAWINGS ONLY)

	WALL TYPE		DETAIL/PARTIAL SECTION REFERENCE
	WINDOW TYPE		INTERIOR ELEVATION REFERENCE
	DOOR NUMBER		ELEVATION REFERENCE
	ROOM NAME		WALL/DETAIL SECTION REFERENCE
	ROOM NUMBER		BUILDING SECTION REFERENCE
	SCHEDULED ITEM		
	CONSTRUCTION NOTE		
	REFERENCE POINT		
	ACCESSORY		

**KEY TO SYMBOLS** (ARCHITECTURAL DRAWINGS ONLY)

JURISDICTION: HOWARD COUNTY, MARYLAND

**APPLICABLE CODES:**

BUILDING	2006 INTERNATIONAL BUILDING CODE
ENERGY	2006 INTERNATIONAL ENERGY CONSERVATION CODE
MECHANICAL	2006 INTERNATIONAL MECHANICAL CODE
ELECTRICAL	2008 NATIONAL ELECTRICAL CODE (NFPA 70)
PLUMBING	2006 NATIONAL STANDARD PLUMBING CODE ILLUSTRATED
LIFE SAFETY	2006 NFPA 101
ACCESSIBILITY	MARYLAND ACCESSIBILITY CODE (COMAR 05.02.02, ADAAG & FFHAG)

PLUS ALL LOCAL AMENDMENTS TO ABOVE

**COMFORT STATION**

AREA:	1,270 SF
HEIGHT ABOVE GRADE PLANE:	18'-0"
OCCUPANCY CLASSIFICATION:	S-1 (STORAGE)
TYPE OF CONSTRUCTION:	V-B (PER IBC TABLE 601)
ALLOWABLE HEIGHT AND AREA:	1 STORY / 9,000 SF (PER IBC TABLE 503)
MAXIMUM EXTERIOR WALL OPENING AREA:	UNLIMITED (PER IBC TABLE 704.8 - FIRE SEPARATION DISTANCE IS GREATER THAN 30')
SPRINKLERS:	NOT SPRINKLERED (PER IBC 903.2.8 AND 903.2.14.3 EXCEPTION J)
RATED PARTITIONS:	1-HR RATING FOR STORAGE ROOMS OVER 100 SF, SEE A1.1 FOR EXTENT

**PICNIC SHELTER**

AREA:	1,465 SF (NOT ENCLOSED)
HEIGHT ABOVE GRADE PLANE:	16'-11"
TYPE OF CONSTRUCTION:	V-B (PER IBC TABLE 601)
SPRINKLERS:	NOT SPRINKLERED

**CODE SUMMARY**

AB	-ANCHOR BOLT	DVTL	-DOVETAIL	JB	-JUNCTION BOX	RCP	-REFLECTED CEILING PLAN
ABV	-ABOVE	DW	-DISHWASHER	JST	-JOIST	RD	-ROOF DRAIN, ROUND
AC	-ACOUSTICAL	DWC	-DRINKING WATER COOLER	JT	-JOINT	REC	-RECEPTACLE
AD	-ACCESS DOOR	DWG	-DRAWING			REF	-REFERENCE
ADD	-ADDENDUM, ADDITION	DWH	-DOMESTIC WATER HEATER			REG	-REGULATOR
ADDL	-ADDITIONAL	DWL(S)	-DOWEL(S)	KO	-KNOCK OUT	REINF	-REINFORCE(D), REINFORCING
ADH	-ADHESIVE	E	-EMERGENCY	L	-LONG LENGTH	REC	-REQUIRED
ADJ	-ADJUST, ADJACENT	EA	-EACH	LAD	-LOCATED AS DIRECTED	RESIL	-RESILIENT
AFF	-ABOVE FINISH FLOOR	EF	-EACH FACE	LAN	-LOCAL AREA NETWORK	REV	-REVISE, REVISION
AFG	-ABOVE FINISH GRADE	EFF	-EFFICIENCY	LAV	-LAVATORY	RGD	-RIGID
AGGR	-AGGREGATE	EG	-EXHAUST GRILLE	LB(S)	-POUND(S)	RH	-RIGHT HAND
AHU	-AIR HANDLING UNIT	EJ	-EXPANSION JOINT	LC	-LOAD CENTER	RIMBD	-RIMBOARD
ALT	-ALTERNATE	EL	-ELEVATION	LCC	-LEAD COATED COPPER	RM	-ROOM
AL	-ALUMINUM	ELEC	-ELECTRICAL	LD	-LOAD	RO	-ROUGH OPENING
ANC	-ANCHOR	ELEV	-ELEVATOR	LEV(G)	-LEVELING	RR	-RAILROAD
APA	-AMERICAN PLYWOOD ASSOCIATION	EMBED	-EMBEDMENT	LF	-LINEAL FOOT, LINEAL FEET	RTN	-RETURN
APPD	-APPROVED	EMT	-ELECTRICAL METAL TUBING	LG	-LARGE	RTNG	-RETAINING
APPROX	-APPROXIMATE(LY)	ENCL	-ENCLOSURE	LL	-LIVE LOAD	RX	-REMOVE EXISTING
ARCH	-ARCHITECTURAL	ENGR	-ENGINEER	LLH	-LONG LEG HORIZONTAL	RPL	-REMOVABLE PLATE
ASBY	-ASSEMBLY	ENT	-ENTRANCE	LLV	-LONG LEG VERTICAL	SAS	-SURFACE ALL SIDES
ASYM	-ASYMMETRICAL	EPS	-EXTRUDED POLYSTYRENE	LOC	-LOCATION	SCHWD	-SCHEDULE
ATC	-ACOUSTICAL TILE CEILING	EQ	-EQUAL, EQUALLY	LONG	-LONGITUDE, LONGITUDINAL	SCHEM	-SCHEMATIC
ATTEN	-ATTENUATION	EQUIP	-EQUIPMENT	LP	-LOW POINT	SD	-STORM DRAIN
AUTO	-AUTOMATIC	EQUIV	-EQUIVALENT	LT(S)	-LIGHT(S)	SECT	-SECTION
AVG	-AVERAGE	ES	-EACH SIDE	LTG	-LIGHTING	SEP	-SEPARATE
AVG	-AMERICAN WIRE GAUGE	EST	-ESTIMATE	LTGA	-LIGHT GAGE	SF	-SQUARE FOOT
&	-AND	ET	-EXPANSION TANK	LTNG	-LIGHTNING	SFS	-SURFACE FOUR SIDES
@	-AT	EXR	-EXISTING TO REMAIN	LV	-LOW VOLTAGE	SG	-SUPPLY GRILLE
<	-ANGLE(S)	EX	-EXISTING	LVL	-LAMINATED VENEER LUMBER	SH	-SHOWER
		EXH	-EXHAUST			SHTHG	-SHEATHING
BAL	-BALANCE	EXP	-EXPOSED	MACH	-MACHINE	SHT	-SHEET
BEJ	-BUILDING EXPANSION JOINT	EXP BLT	-EXPANSION BOLT	MAN	-MANUAL	SI	-SQUARE INCH
BKHD	-BULKHEAD	EXT	-EXTERIOR, EXTERNAL	MATL	-MATERIAL	SIM	-SIMILAR
BLDG	-BUILDING	EW	-EACH WAY	MAX	-MAXIMUM	SL	-SLOPE
BLK(G)	-BLOCKING	EWC	-ELECTRIC WATER COOLER	MECH	-MECHANICAL	SL	-SLOPE
BM	-BEAM	EWH	-ELECTRIC WATER HEATER	MED	-MEDIUM	SM	-SMALL
BOD	-BOTTOM OF DUCT			MET	-METAL	SPCG	-SPACING
BOS	-BOTTOM OF STEEL	F	-FAHRENHEIT	MEZZ	-MEZZANINE	SPCL	-SPECIAL
BOT(T)	-BOTTOM	FA	-FIRE ALARM	MFR(S)	-MANUFACTURER(S)	SPEC	-SPECIFICATIONS
BPL	-BASE PLATE	FCP	-FIRE ALARM CONTROL PANEL	MH	-MANHOLE	SQ	-SQUARE
BRCG	-BRACING	FC	-FLEX CONNECTION	MIDT	-MIDPOINT	SS	-STAINLESS STEEL
BRDG	-BRIDGING	FCU	-FAN COIL UNIT	MIN	-MINIMUM, MINUTE	ST	-STREET
BRG	-BEARING	FD	-FLOOR DRAIN	MIR	-MIRROR	STA	-STATION
BRK	-BRICK	FDN	-FOUNDATION	MISC	-MISCELLANEOUS	STD	-STANDARD
BS	-BOTH SIDES	FDR	-FEEDER	MO	-MASONRY OPENING	STIFF	-STIFFENER
BTWN	-BETWEEN	FE	-FIRE EXTINGUISHER	MOT	-MOTOR	STIR	-STIRRUP
BW	-BOTH WAYS	FEC	-FIRE EXTINGUISHER CABINET	MSNRY	-MASONRY	STL	-STEEL
		FF	-FINISH FLOOR	MTD	-MOUNTED	STOR	-STORAGE
C	-CONDUIT	FG	-FINISH GRADE	STRUC	-STRUCTURAL	SUPT	-SUPPORT
CAB	-CABINET	FHY	-FIRE HYDRANT	N	-NORTH	SUSP	-SUSPENDED
CAT	-CATEGORY	FIN	-FINISH	NA	-NOT APPLICABLE	SW	-SWITCH
CBU	-CEMENTITIOUS BACKER UNIT	FL	-FLOOR	NC	-NORMALLY CLOSED	SWBD	-SWITCHBOARD
CFLS	-COUNTER FLASHING	FLEX	-FLEXIBLE	NEUT	-NEUTRAL	SWM	-STORMWATER MANAGEMENT
CFM	-CUBIC FEET PER MINUTE	FLGE	-FLANGE	NIC	-NOT IN CONTRACT	SYM	-SYMMETRICAL
CHAM	-CHAMFER	FLMB	-FLAMMABLE	NOM	-NOMINAL	SYR	-SOUTHERN YELLOW PINE
CHAN	-CHANNEL	FLOR	-FLUORESCENT	#	-NUMBER	SYS	-SYSTEM
CIR	-CIRCLE	FOM	-FACE OF MASONRY	NS	-NEAR SIDE		
CKT	-CIRCUIT	FP	-FIRE PROTECTION	NTS	-NOT TO SCALE		
CJ	-CONSTRUCTION JOINT	FRMG	-FRAMING	OA	-OUTSIDE AIR	T	-TREAD, THERMOSTATE
CL	-CLEAR, CLEARANCE	FS	-FAR SIDE	OC	-ON CENTER	T&B	-TOP AND BOTTOM
CTLN	-CENTERLINE	FTG	-FEET, FOOT	OD	-OUTSIDE DIAMETER	TC	-TOP OF CURB
CLG	-CEILING	FT	-FOOTING	OF	-OUTSIDE FACE	TEL	-TELEPHONE
CLJ	-CONTROL JOINT	FR	-FIN TUBE RADIATION	OP	-OPENING	TEMP	-TEMPERATURE, TEMPORARY
CMU	-CONCRETE MASONRY UNIT(S)	FURR	-FURRING	OPNG	-OPENING	T&G	-TONGUE AND GROOVE
CO	-CLEAN OUT	FUT	-FUTURE	OPP	-OPPOSITE	THD	-THREADED
COL	-COLUMN			OPP HND	-OPPOSITE HAND	THK	-THICK
CONC	-CONCRETE	GA	-GAGE/ GAUGE	OH	-OVERHEAD	TO	-TOP OF
COND	-CONDENSATE	GAL	-GALLON	OZ	-OUNCE	TOC	-TOP OF CONCRETE
CONN	-CONNECTION	GALV	-GALVANIZED			TOP	-TOP OF FOOTING
CONSTR	-CONSTRUCTION	GEN	-GENERAL	%	-PERCENT	TOM	-TOP OF MASONRY
CONT	-CONTINUED, CONTINUOUS	GL	-GLASS, GLAZING	/	-PER	TOP	-TOP OF PARAPET
CONTR	-CONTRACTOR	GR	-GRADE	±	-PLUS OR MINUS	TOS	-TOP OF STEEL
COORD	-COORDINATE	GRD	-GROUND	PAR	-PARALLEL	TOT	-TOTAL
CPT	-CARPET	GRTG	-GRATING	PB	-PUSH BUTTON	TRANS	-TRANSVERSE
CSK	-COUNTERSUNK	GVL	-GRAVEL	PC	-PIECE	TRK	-TRACK
CT	-CERAMIC TILE	GWB	-GYPSUM WALL BOARD	PE	-POLYETHYLENE	TRTD	-TREATED
C TO C	-CENTER TO CENTER			PEN	-PENETRATION	TV	-TELEVISION
CTR	-CENTER	H	-HIGH	PERP	-PERPENDICULAR	TYP	-TYPICAL
CU FT	-CUBIC FEET, CUBIC FOOT	HA	-HANDICAPPED ACCESSIBLE	PH	-PHASE	UC	-UNDER CUT
CU IN	-CUBIC INCH(ES)	HD	-HEAD	PL	-PLATE	UG	-UNDERGROUND
CU YD	-CUBIC YARD(S)	HEX	-HEXAGONAL	PLAM	-PLASTIC LAMINATE	UH	-UNIT HEATER
CV	-CHECK VALVE	HK	-HOOK	PLATF	-PLATFORM	UL	-UNDERWRITERS LAB
CW	-COLD WATER	HL(S)	-HOLE(S)	PLMB	-PLUMBING	UNO	-UNLESS NOTED OTHERWISE
		HM	-HOLLOW METAL	PLYWD	-PLYWOOD		
D	-DEEP, DEPTH	HORIZ	-HORIZONTAL	PNEU	-PNEUMATIC		
DBL	-DOUBLE	HP	-HORSE POWER	PNL	-PANEL	VB	-VAPOR BARRIER
DEG	-DEGREE	H PT	-HIGH POINT	PNLBD	-PANELBOARD	VCT	-VINYL COMPOSITION TILE
DEMO	-DEMOLISH	HQ	-HEADQUARTERS	POB	-POINT OF BEGINNING	VERT	-VERTICAL
DEPT	-DEPARTMENT	HR	-HOUR	POC	-POINT OF CONNECTION	VIF	-VERIFY IN FIELD
DET	-DETAIL(S)	HT	-HEIGHT	PR	-PAIR	VOL	-VOLUME
DEV	-DEVELOP	HTG	-HEATING	PREFAB	-PREFABRICATED	VTR	-VENT THROUGH ROOF
DF	-DRINKING FOUNTAIN	HV	-HIGH VOLTAGE	PRESS	-PRESSURE		
Ø/ DIA	-DIAMETER	HVAC	-HEATING/ VENTILATING/ AIR CONDITIONING	PROJ	-PROJECT	W	-WIDE, WIDTH
DIAG	-DIAGONAL	HW	-HOT WATER	PROP	-PROPERTY	W/	-WITH

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**RFI Transmittal**  
RFI ID: RFI-036  
Transmittal ID: 00185  
Date Sent: 8/7/2012

**Project:** Blandair Park-Phase I  
**Number:** 0811.1

**To:** Marlon Davis  
Ikhana  
3660 Bessemer Road  
Mount Pleasant, SC 29466  
United States  
843-566-7800 (Phone)  
843-566-7841 (Fax)

**From:** Eric Fells  
GWJO, Inc./Architects  
800 Wyman Park  
Suite 300  
Baltimore, MD 21211  
US  
(410) 332-1009 x1107 (Phone)  
(410) 332-0038 (Fax)

**Subject:** Siding Thickness  
**Via:** Email  
**Purpose:** Answered

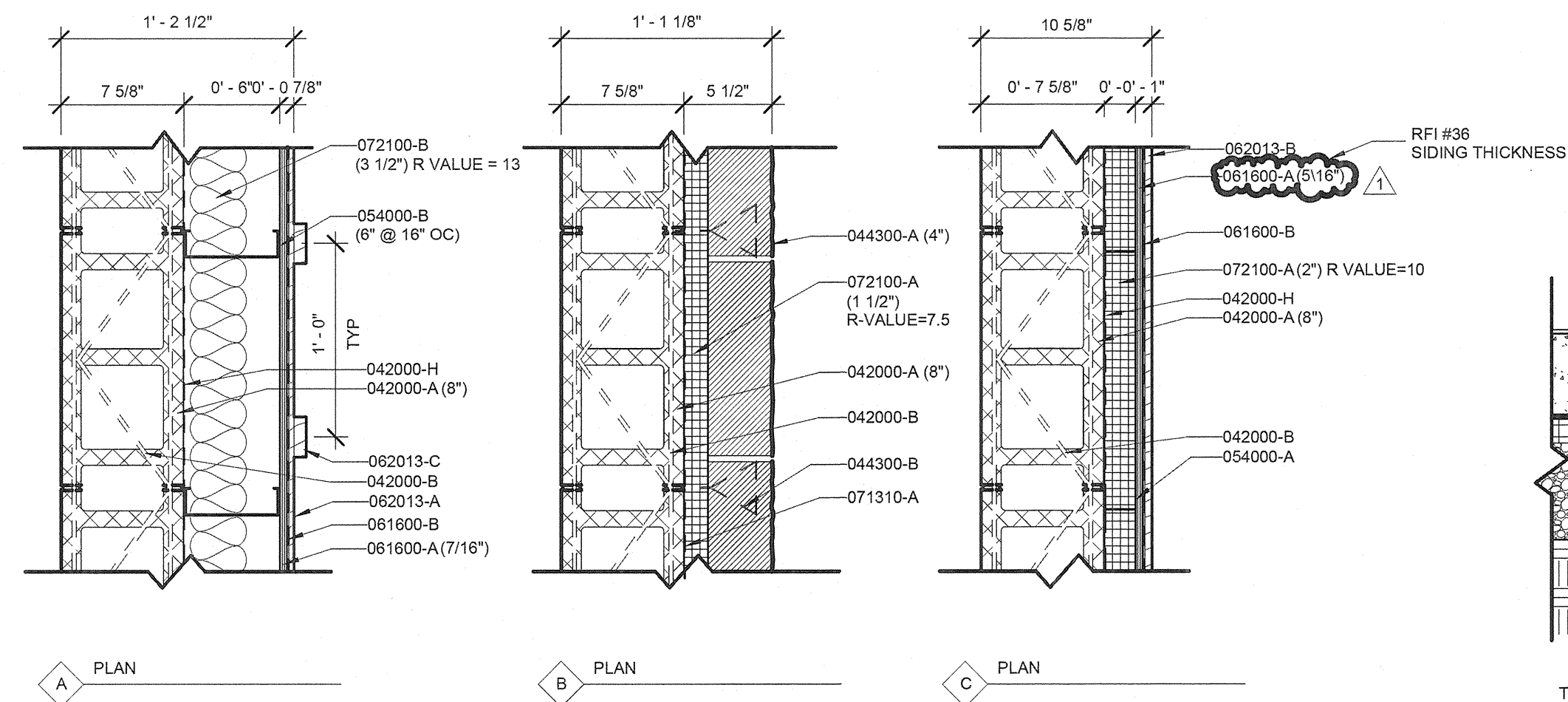
**Question:** The reveal panel siding is called out to be 7/16" thick. There is minimum quantity order of 5,000 sf for the 7/16"x4"x8" prefinished Hardie panel in Color Plus. We are only using approximately 750 sf of the reveal system and therefore it would be extremely cost prohibitive and wasteful.

**Suggestion:**  
1. Use the 5/16"x4"x8" prefinished Hardie panel in Color Plus. No minimum order quantity.  
2. Use Certainteed 1/2" or 5/8" thick 4x8 boards prefinished with their ColorMax system since Certainteed is an approved manufacturer. Colors can be matched exactly.

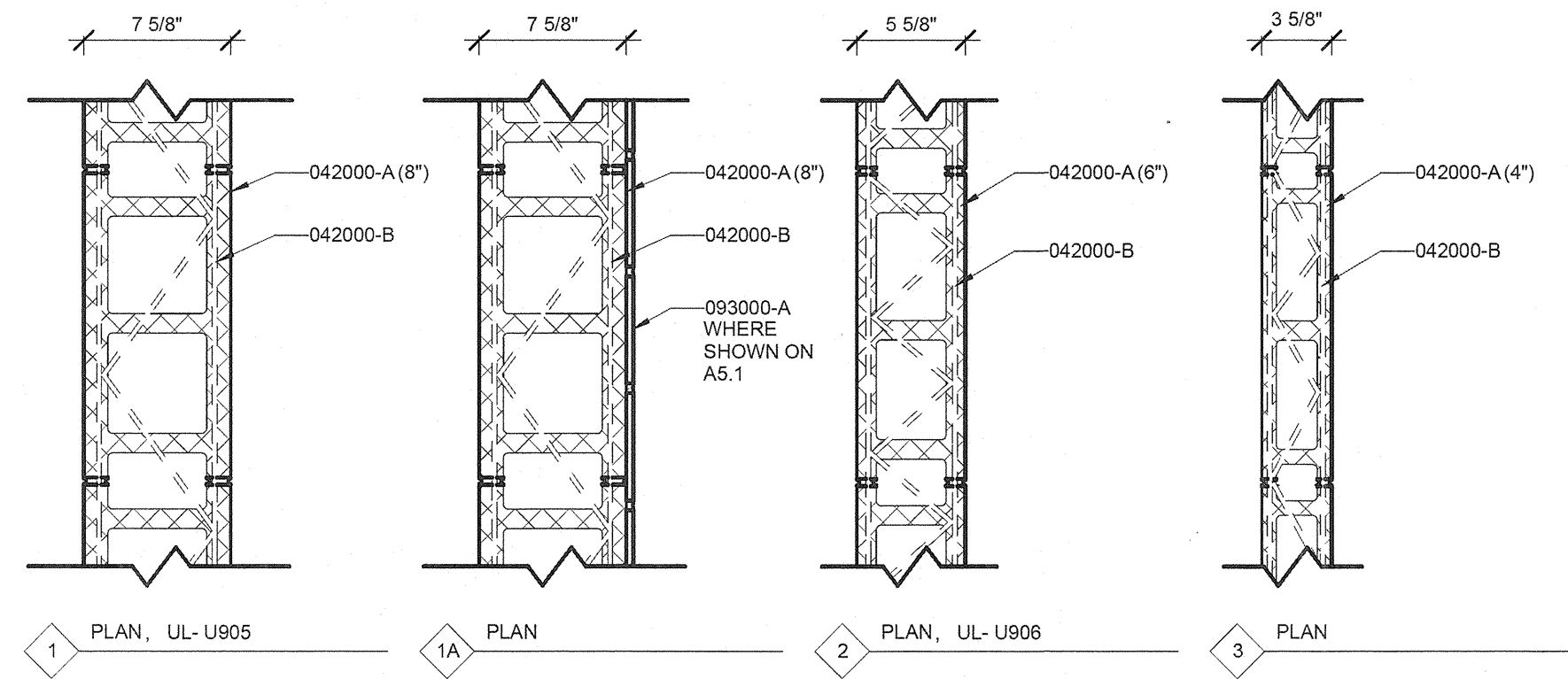
**Answer:** Use the 5/16" x 4' x 8' prefinished Hardie panel. Be advised that the original 7/16" thick board was designed to be compatible with a series of aluminum reveals. Shop drawings will be required to show how these reveals are incorporated with the 5/16" thick board.

**CC:** Chris Ho(Whitman, Reardon & Associates, LLP)  
Mark Kovach(Howard County Department of Public Works)  
Bill Rossler(Howard County Department of Public Works)

W  
O

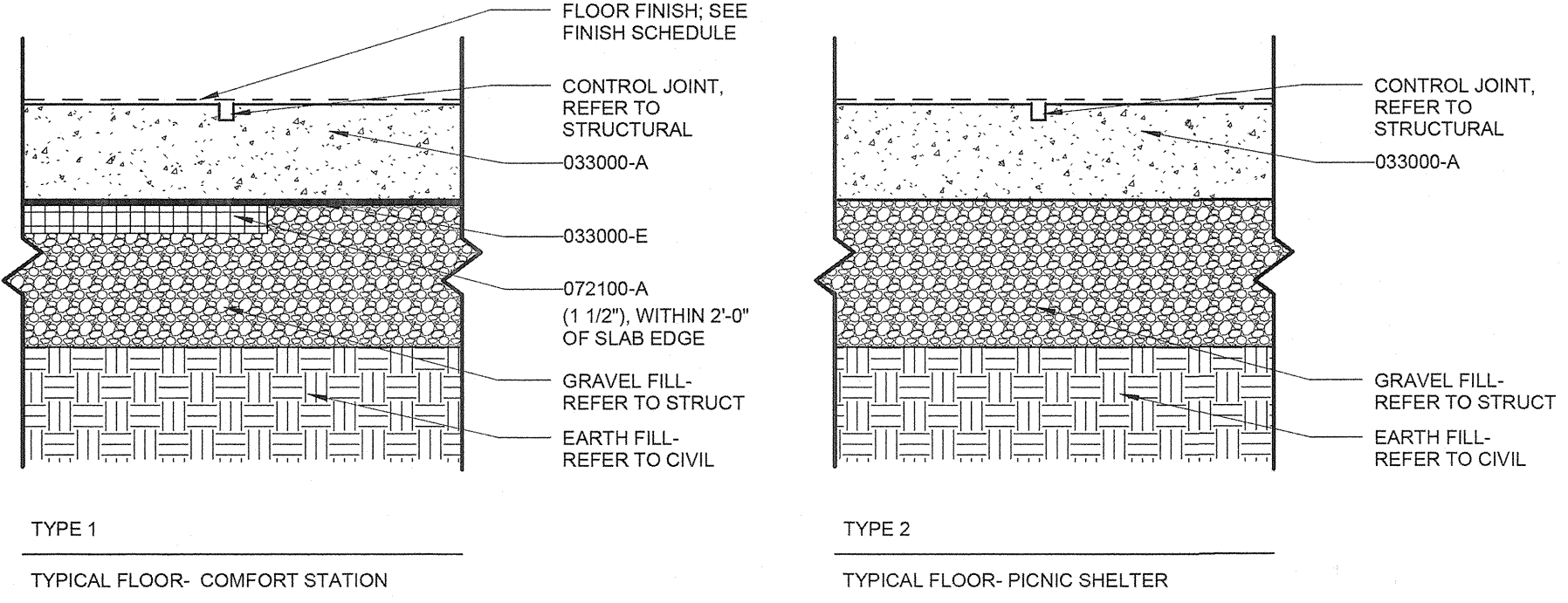
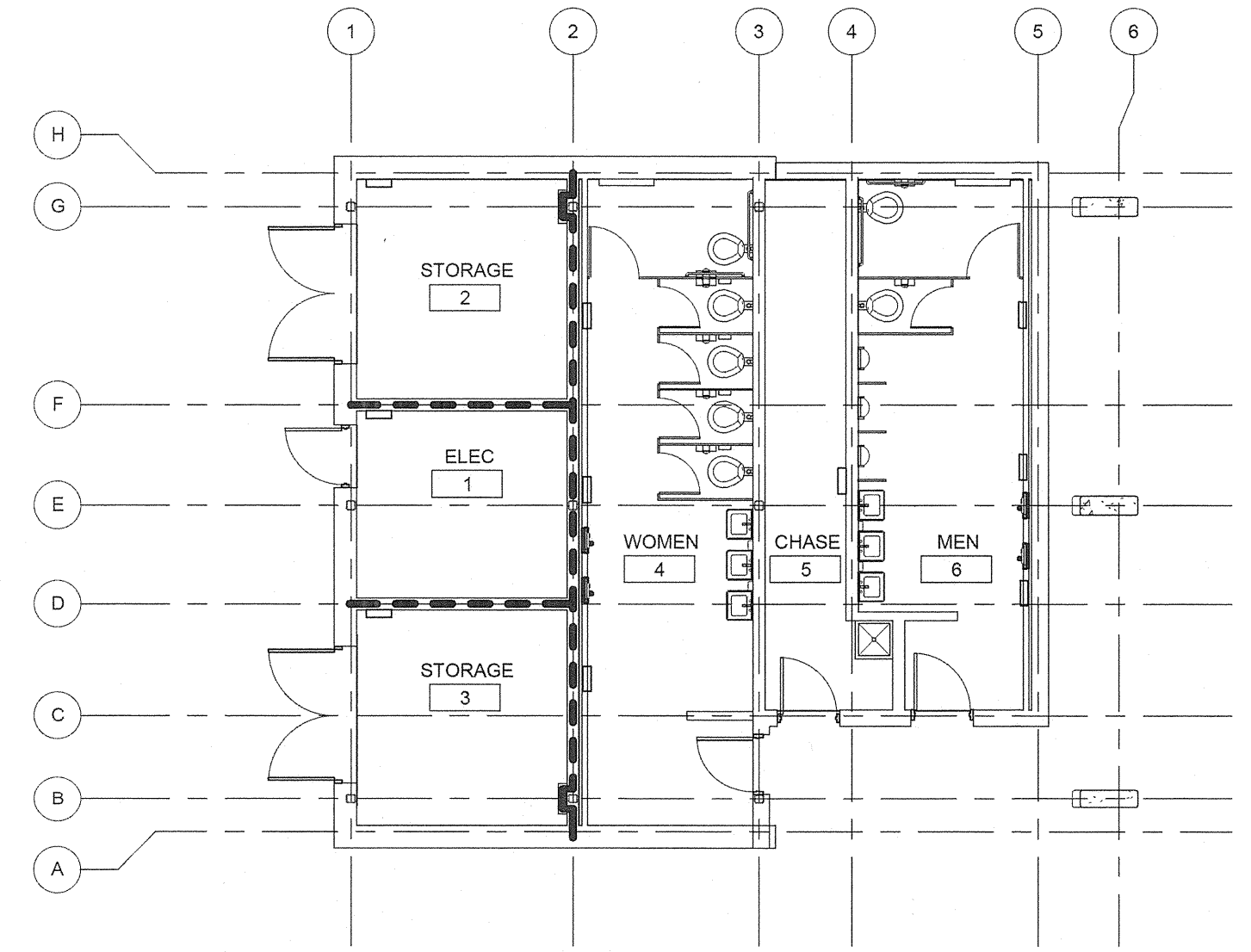


1 EXTERIOR WALL TYPES  
A1.0 1 1/2" = 1'-0"

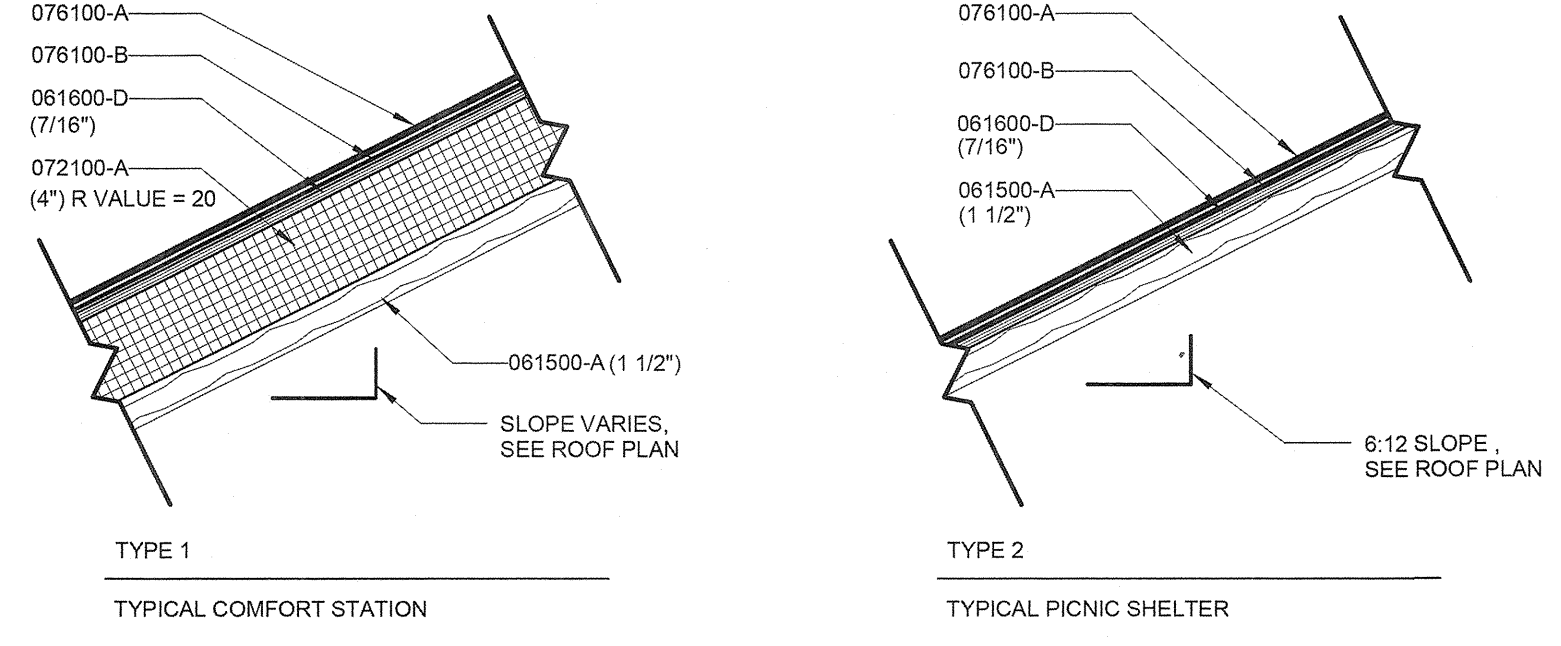


3 INTERIOR WALL TYPES  
A1.0 1 1/2" = 1'-0"

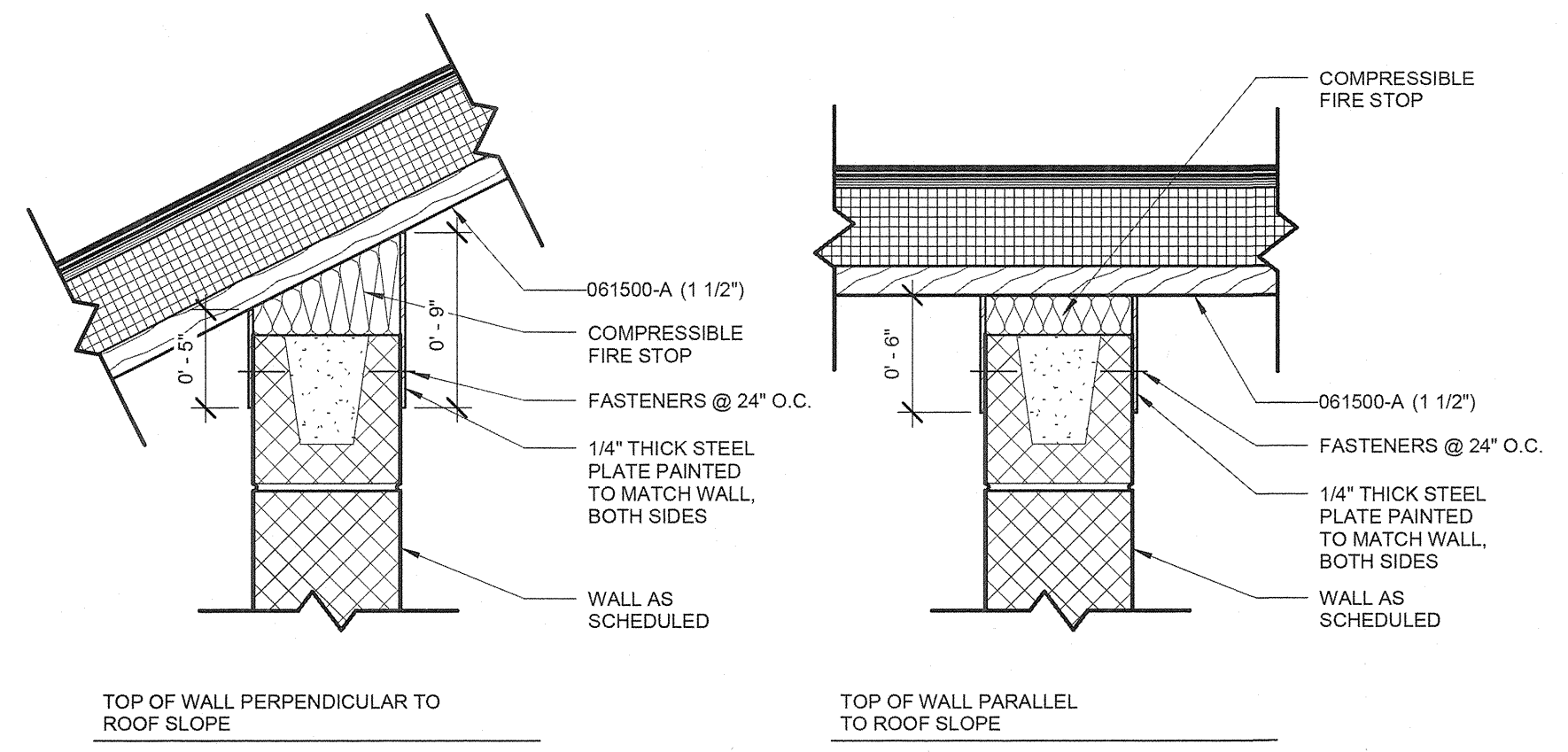
NOTE: UNLESS NOTED OTHERWISE, ALL INTERIOR WALLS EXTEND TO UNDERSIDE OF DECK ABOVE.



2 FLOOR TYPES  
A1.0 1 1/2" = 1'-0"



4 ROOF TYPES  
A1.0 1 1/2" = 1'-0"



6 INTERIOR TOP OF WALL CONDITIONS  
A1.0 1 1/2" = 1'-0"

KEYNOTES LISTED ON THIS SHEET ARE FOR CONVENIENCE ONLY. REFER TO SHEET A1.0 FOR COMPLETE LIST.

KEYNOTE	KEYNOTE LEGEND - SHEET DESCRIPTION
033000-A	CONCRETE SLAB ON GRADE; REFER TO STRUCTURAL DOCUMENTS FOR FULL DESCRIPTION
033000-E	VAPOR BARRIER
042000-A	CONCRETE MASONRY UNIT; NOMINAL WIDTH AS INDICATED
042000-B	HORIZONTAL JOINT REINFORCING
042000-H	NO. 15 ASPHALT FELT
044300-A	STONE VENEER; NOMINAL WIDTH AS INDICATED
044300-B	MASONRY TIE
054000-A	2" FURRING CHANNEL AT 16" O.C.
054000-B	NON-LOAD BEARING STEEL STUDS AT 16" O.C.; SIZE AS INDICATED
061500-A	TONGUE AND GROOVE WOOD ROOF DECKING
061600-A	EXTERIOR PLYWOOD WALL SHEATHING; THICKNESS AS INDICATED
061600-B	BUILDING WRAP
061600-D	EXTERIOR PLYWOOD ROOF SHEATHING; THICKNESS AS INDICATED
062013-A	CEMENT BOARD SIDING (5/16")
062013-B	CEMENT BOARD SIDING (7/16")
062013-C	CEMENT BOARD BATTEN
071310-A	SHEET WALL FLASHING
072100-A	RIGID INSULATION; THICKNESS AS INDICATED
072100-B	FACED FIBERGLASS BLANKET INSULATION; THICKNESS AS INDICATED
076100-A	STANDING SEAM METAL ROOF
076100-B	METAL ROOF UNDERLAYMENT
093000-A	CERAMIC WALL TILE

REVISIONS	
AS BUILT	01/13/14

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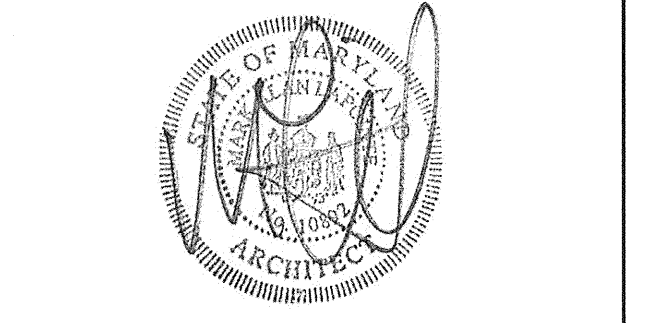
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801 South Caroline Street, Baltimore, Maryland 21231  
Phone: 410-235-5450 Fax: 410-243-5716

PROPERTY  
TAX MAP 36, GRID 5, PARCEL 3.72  
ZONING: RC-DEO  
ELECTION DISTRICT 3/7

GRAPHIC SCALES

SIGNATURE



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BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

CONSTRUCTION TYPES

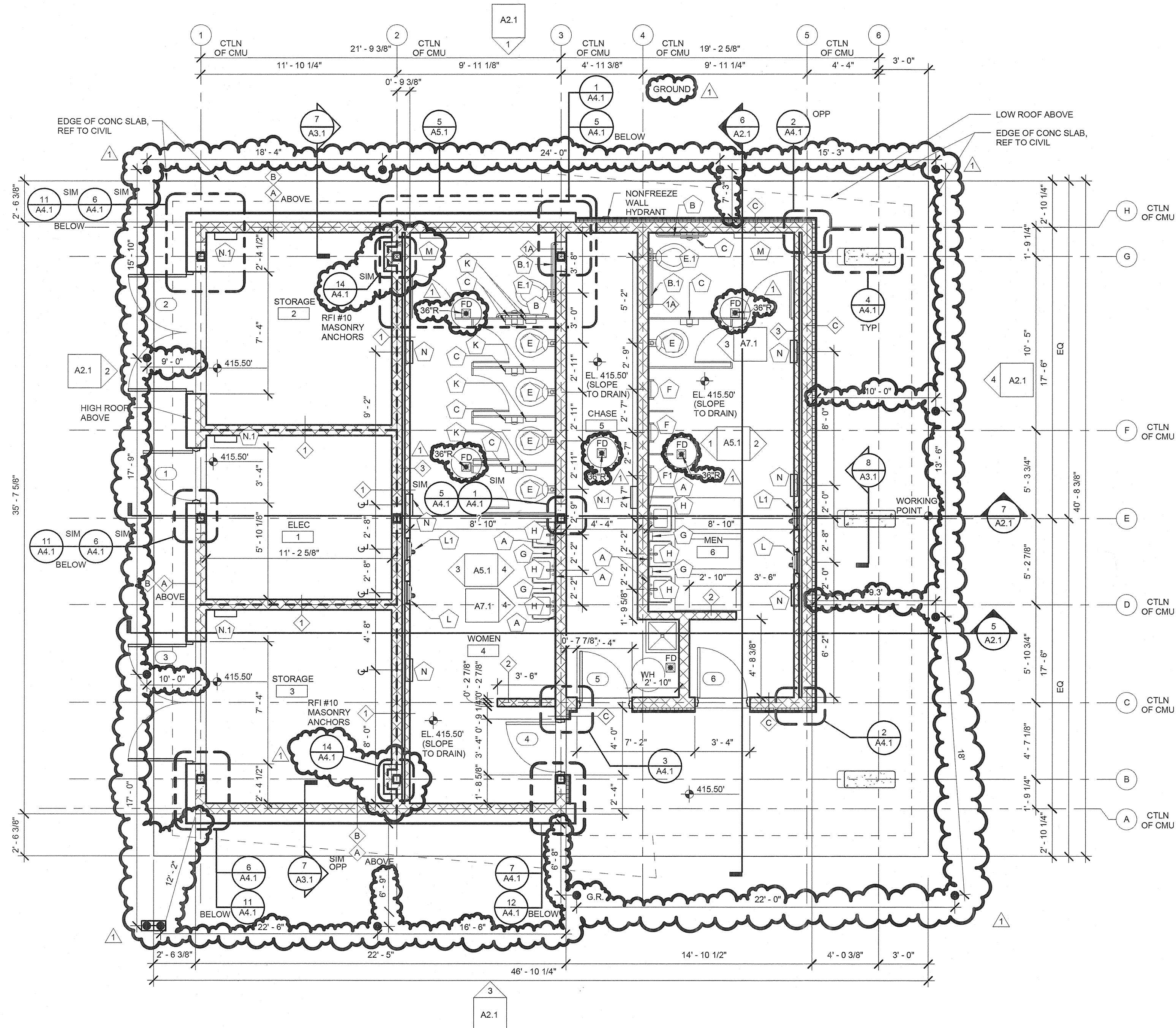
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Scale: As indicated  
Date: 11/28/2011 Sheet 10 of 55  
Des: Drawn:MDP Check:LAA

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1 COMFORT STATION - FLOOR PLAN  
A1.1 1/4" = 1'-0"

RFI #10 MASONRY ANCHORS  
THE CAST IN MASONRY ANCHORS FOR THE 6" CMU IS ONLY TO BE USED AT COLUMNS B2 & G2 ON THE STORAGE SIDE. DETAIL 14-A4.1 IS REFERENCED IN 1-A1.1 COMFORT STATION - FLOOR PLAN @ COLUMNS B2 & G2.

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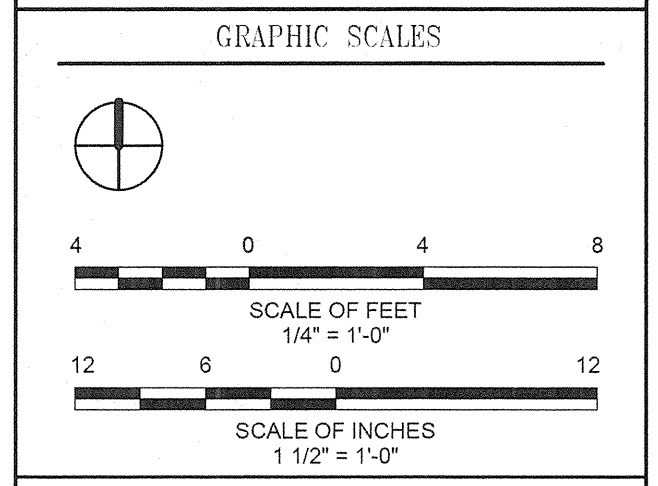
KEYNOTE	DESCRIPTION
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REVISIONS	
AS BUILT	01/13/14

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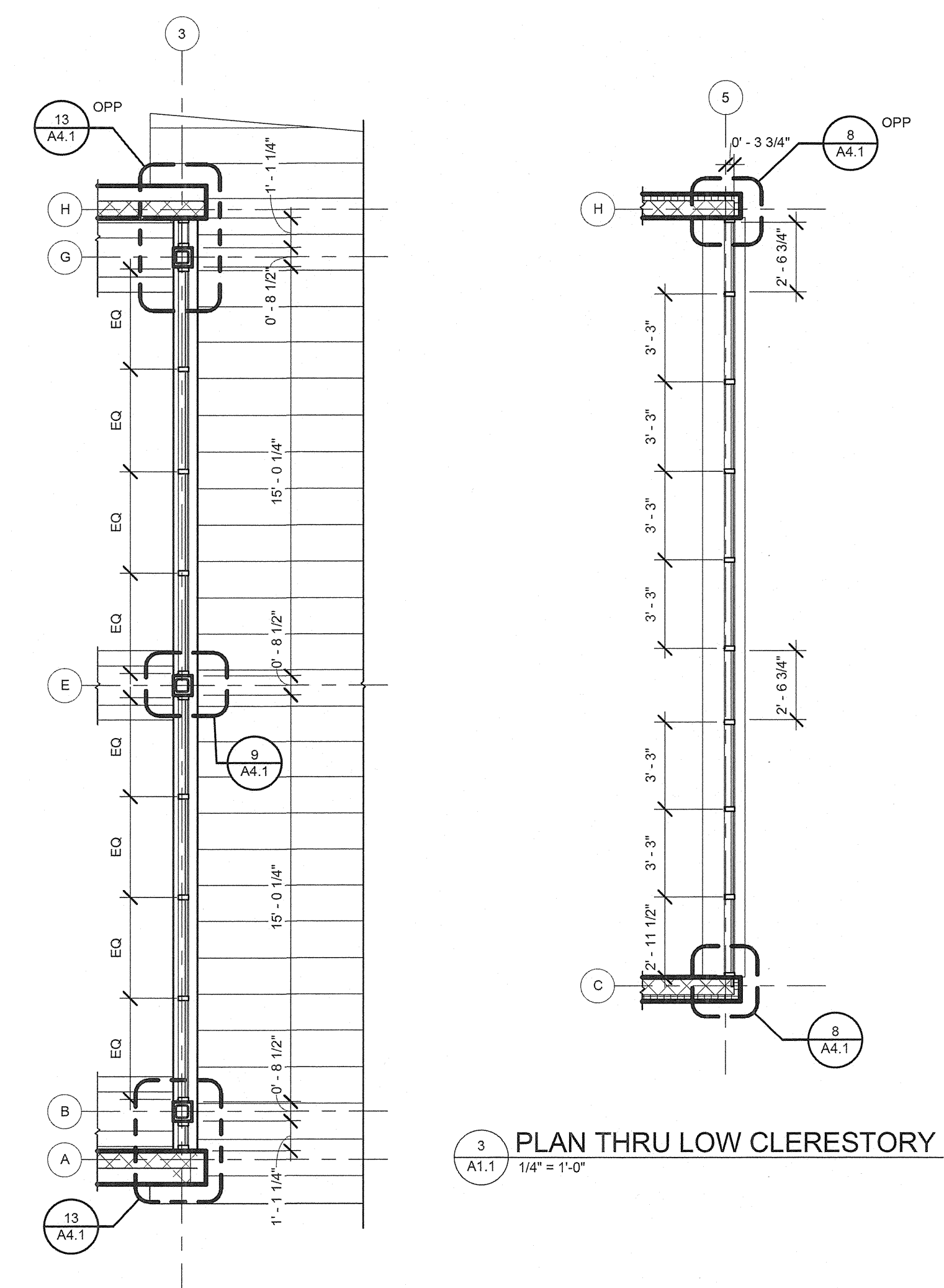
PROPERTY  
TAX MAP 36, GRID 5, PARCEL 3.72  
ZONING: RC-DEO  
ELECTION DISTRICT 3/7



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BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

COMFORT STATION FLOOR PLAN  
Drawing No. **A1.1**  
Scale: 1/4" = 1'-0"  
Date: 11/28/2011 Sheet 11 of 55  
Des: Drawn:MDP Check:LAA

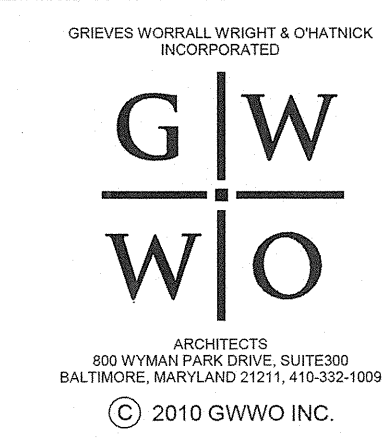


2 PLAN THRU HIGH CLERESTORY  
A1.1 1/4" = 1'-0"

3 PLAN THRU LOW CLERESTORY  
A1.1 1/4" = 1'-0"

**GENERAL NOTES:**  
1. REFER TO A5.1 FOR ACCESSORY SCHEDULE.  
2. HT OF WING WALL (TYPE 2) IS 7'-4".  
3. HT OF WALL TYPE 3 IS 7'-4".  
4. --- INDICATES 1-HR RATED FIRE PARTITION.  
5. ALIGN CENTER OF CMU WITH GRIDLINES, UNO.

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KEYNOTE	DESCRIPTION
076100-D	SNOW GUARDS
076100-F	SELF-ADHERING HIGH TEMPERATURE SHEET

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TAX MAP 36, GRID 5, PARCEL 3.72

ZONING: RC-DEO

ELECTION DISTRICT 3/7

GRAPHIC SCALES

SCALE OF FEET  
 1/8" = 1'-0"

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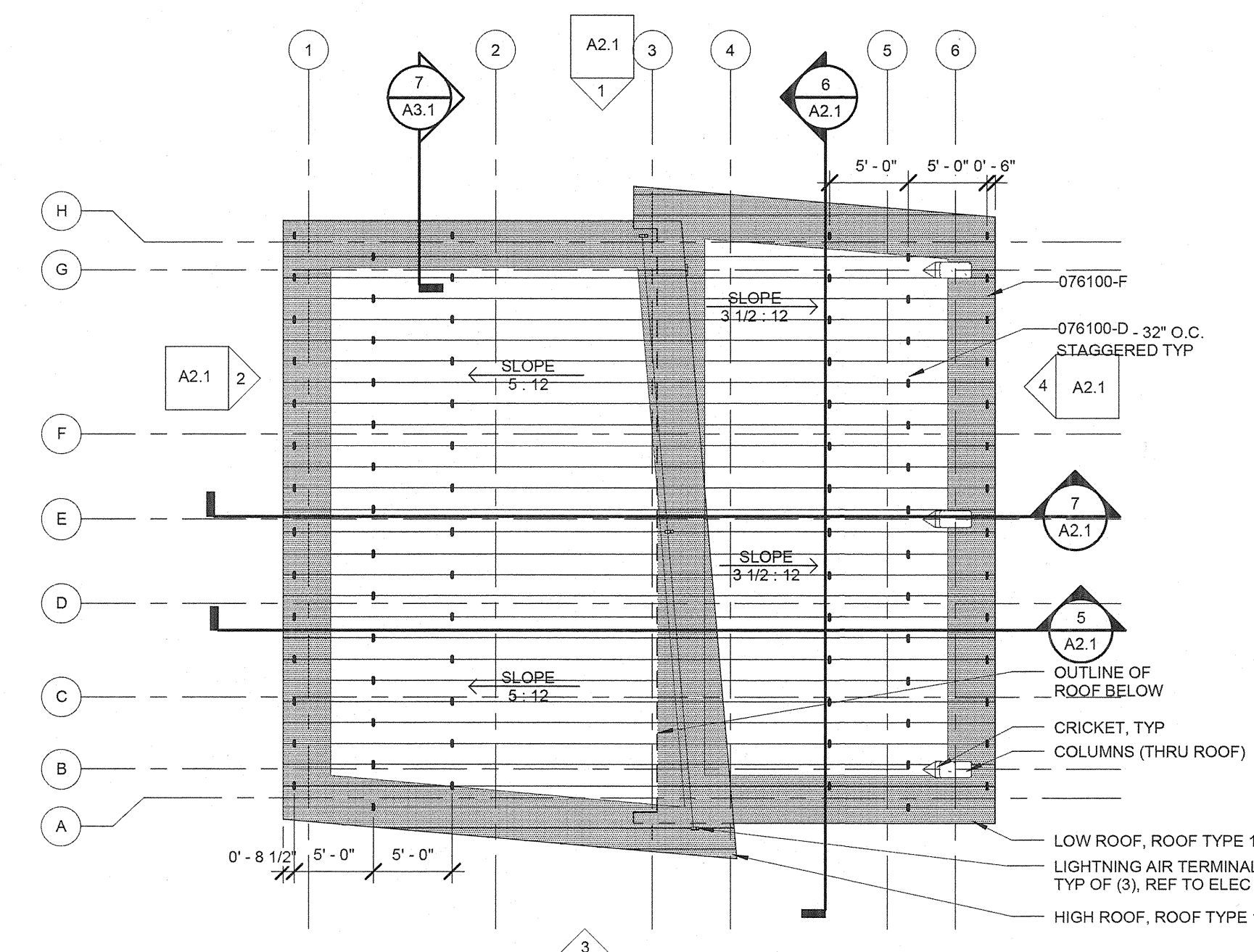
COMFORT STATION ROOF PLAN & REFLECTED CEILING PLAN

Drawing No.  
**A1.2**

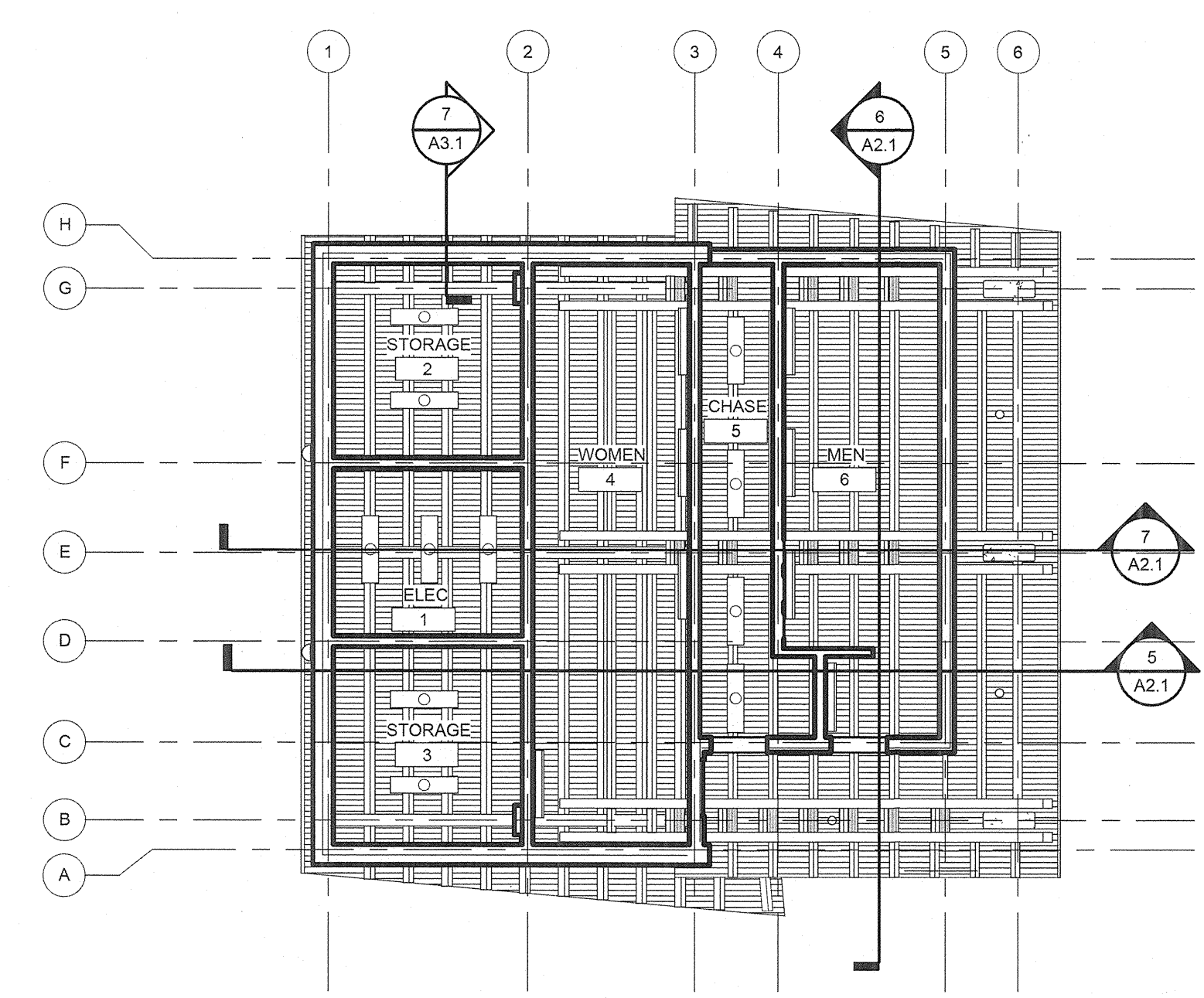
Scale: 1/8" = 1'-0"

Date: 11/28/2011 Sheet 12 of 55

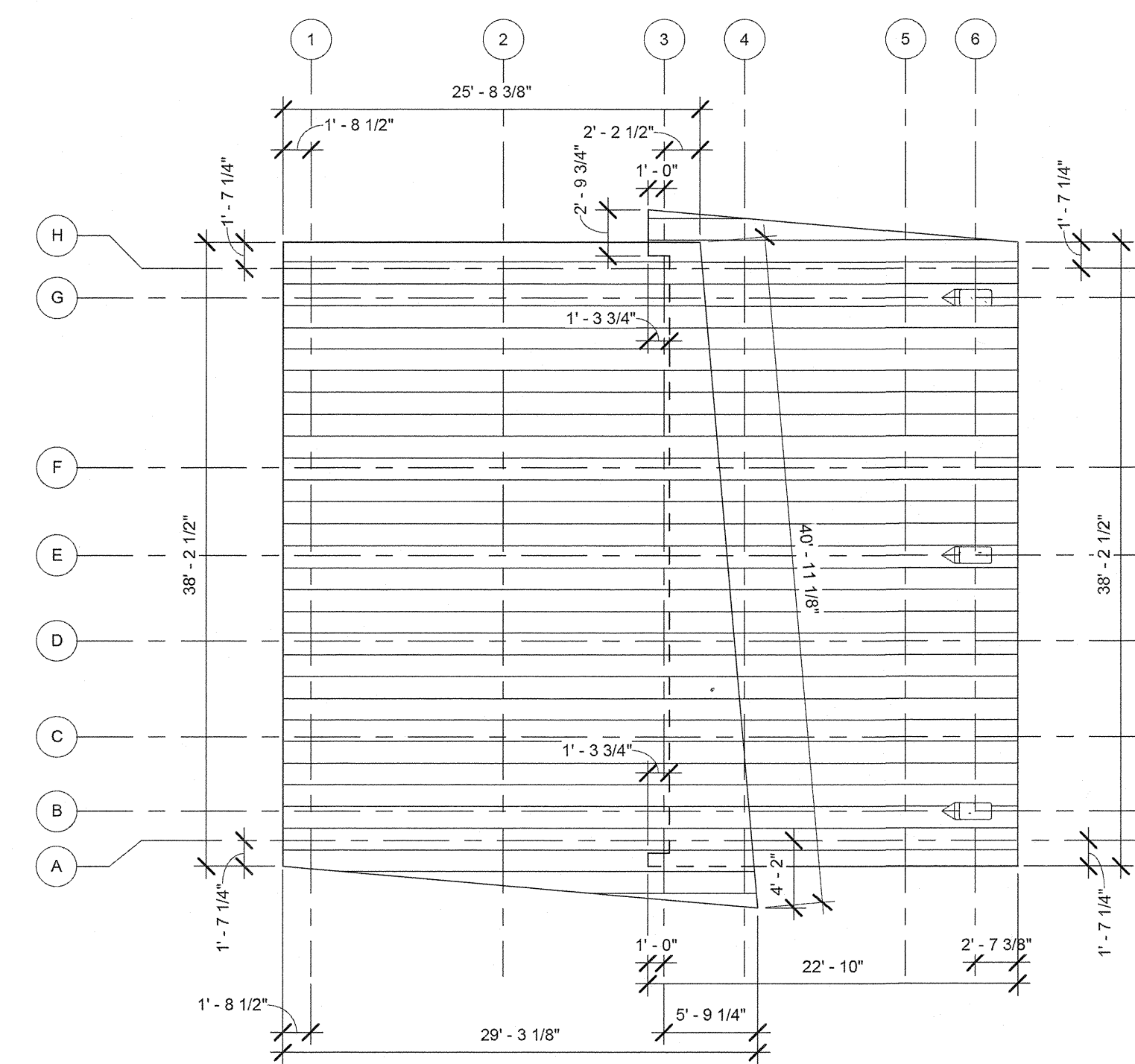
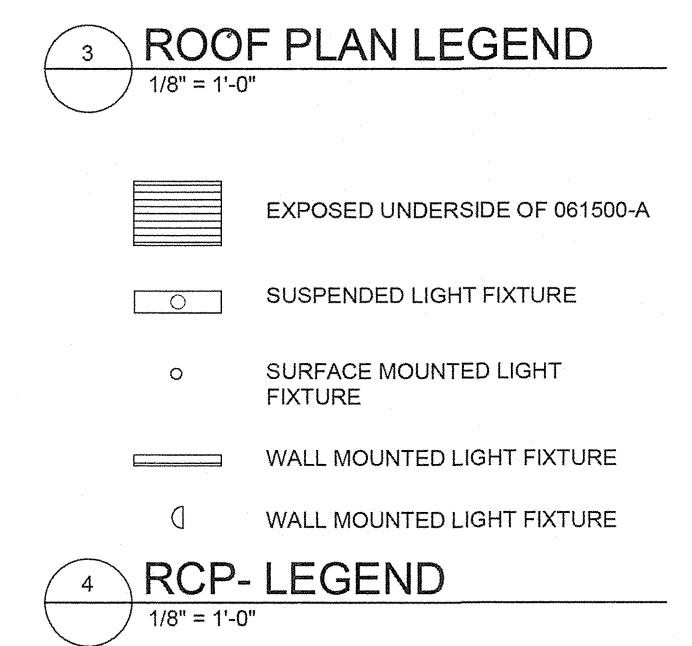
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1 COMFORT STATION- ROOF PLAN  
 1/8" = 1'-0"



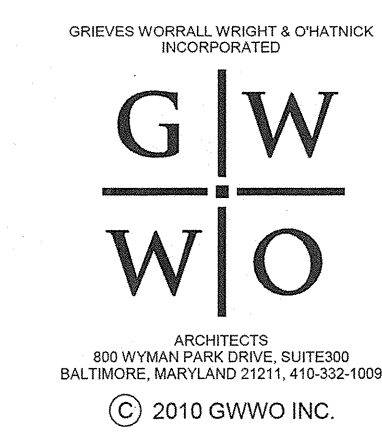
2 COMFORT STATION - REFLECTED CEILING PLAN  
 1/8" = 1'-0"



3 COMFORT STATION- ROOF GEOMETRY PLAN  
 1/8" = 1'-0"

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KEYNOTE	DESCRIPTION
033000-A	CONCRETE SLAB ON GRADE. REFER TO STRUCTURAL DOCUMENTS FOR FULL DESCRIPTION.
033300-A	CONCRETE COLUMN; ARCHITECTURAL CONCRETE. REFER TO STRUCTURAL.
055000-F	STEEL PLATE VERTICAL SIDING, 1/2" THICK - SEE DRAWING 3/A3.2 FOR TYPICAL LAYOUT PATTERN.

REVISIONS	

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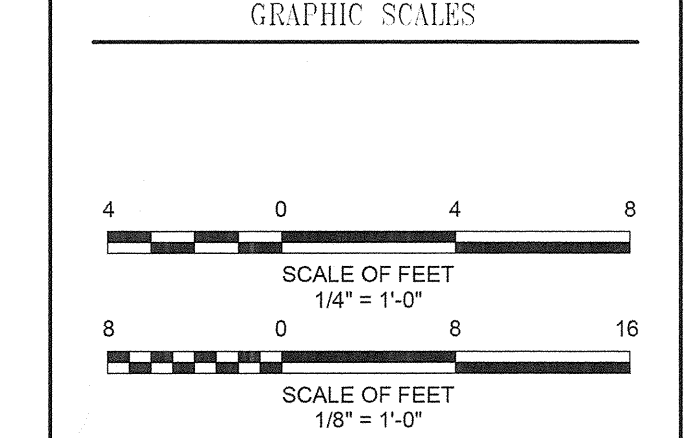
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TAX MAP 36, GRID 5, PARCEL 3,72

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**BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT**

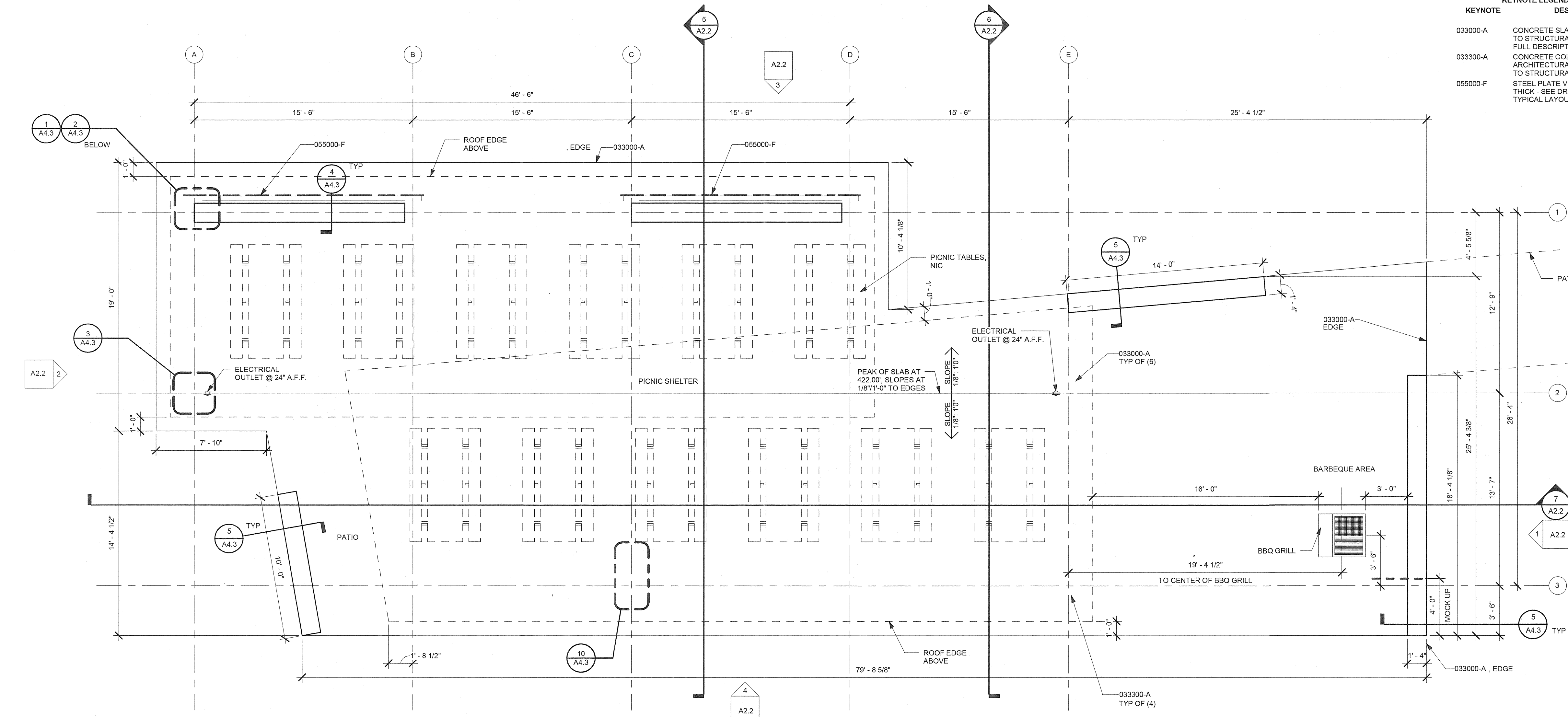
PICNIC SHELTER FLOOR PLAN

Drawing No.  
**A1.3**

Scale: 1/4" = 1'-0"

Date: 11/28/2011 Sheet 13 of 55

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1 PICNIC SHELTER - FLOOR PLAN  
1/4" = 1'-0"

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KEYNOTE	DESCRIPTION
033300-A	CONCRETE COLUMN; ARCHITECTURAL CONCRETE, REFER TO STRUCTURAL
061000-D	NOT USED
061500-A	TONGUE AND GROOVE WOOD ROOF DECKING
061800-A	GLUE LAMINATED BEAM (REFER TO STRUCTURAL DOCUMENTS FOR FULL DESCRIPTION)
076100-D	SNOW GUARDS

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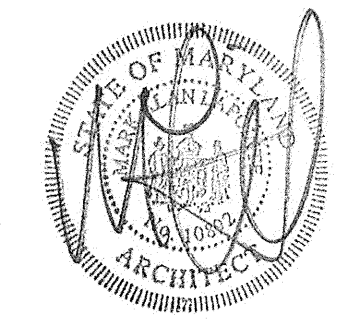
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BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

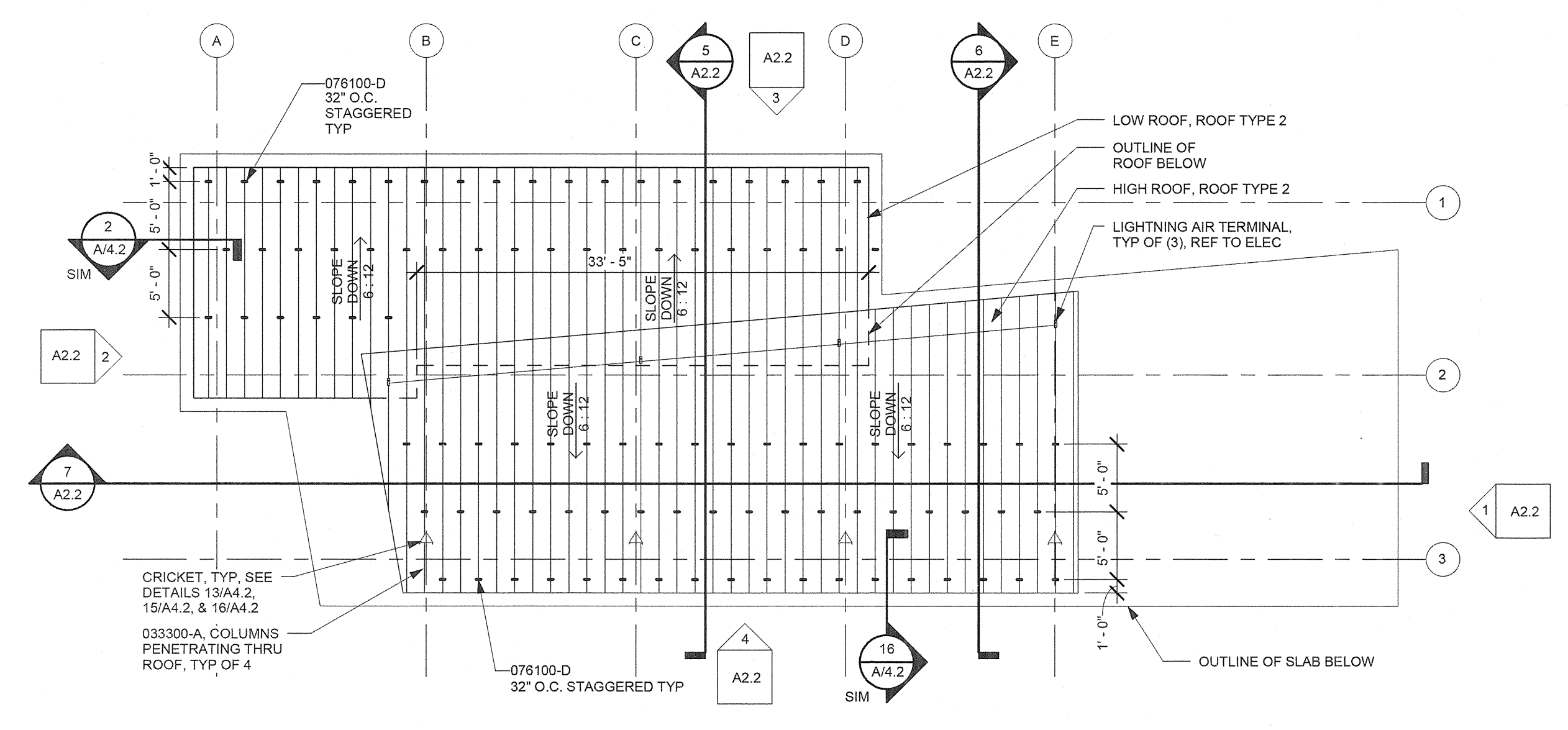
PICNIC SHELTER ROOF PLAN & REFLECTED CEILING PLAN

Drawing No.  
**A1.4**

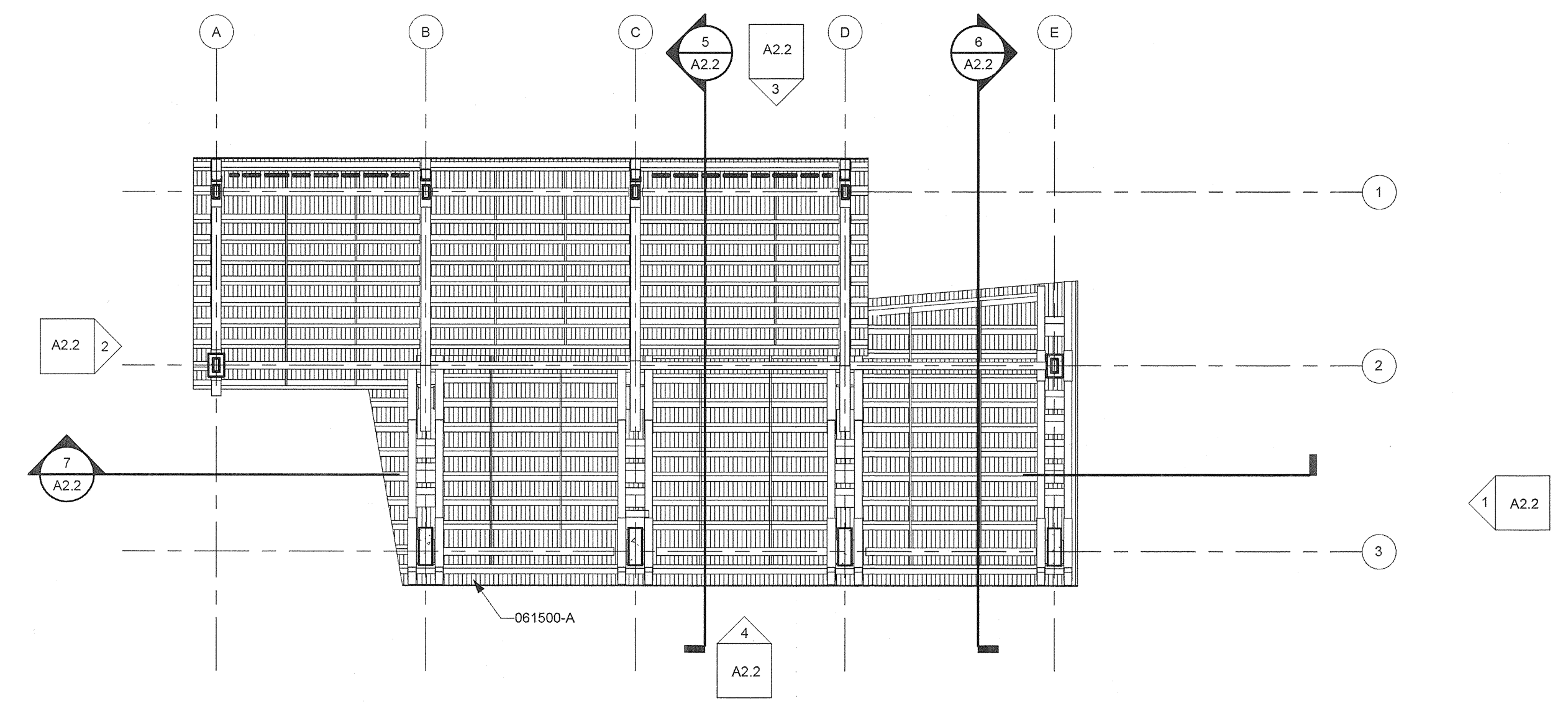
Scale: 1/8" = 1'-0"

Date: 11/28/2011 Sheet 14 of 55

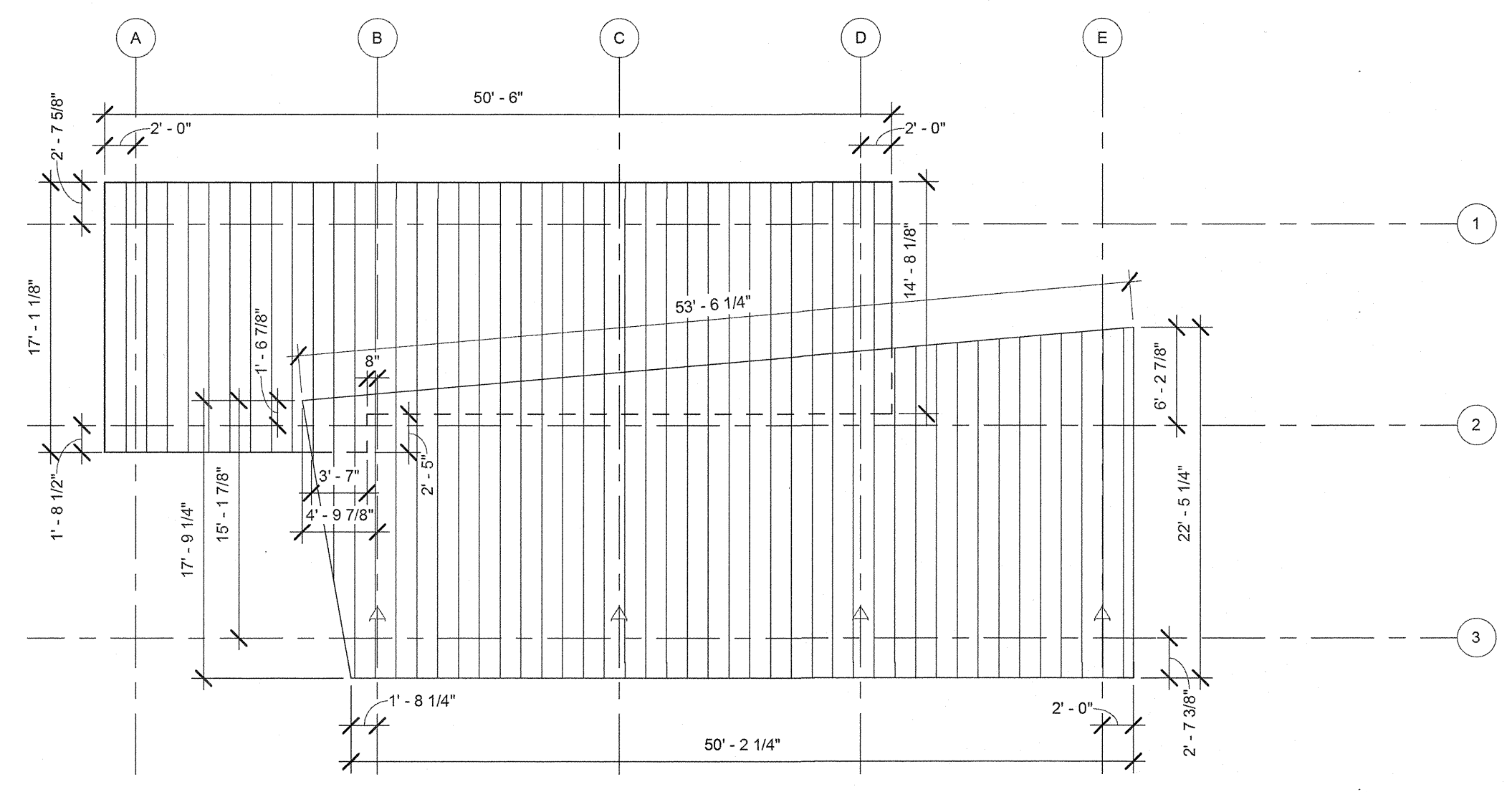
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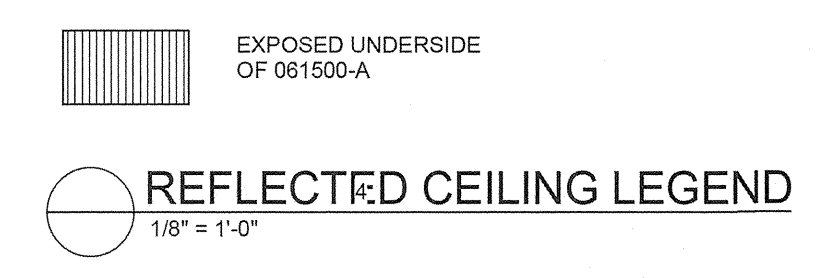
1 PICNIC SHELTER- ROOF PLAN  
 A1.4 1/8" = 1'-0"



2 PICNIC SHELTER - REFLECTED CEILING PLAN  
 A1.4 1/8" = 1'-0"



3 PICNIC SHELTER- ROOF GEOMETRY PLAN  
 A1.4 1/8" = 1'-0"



**CONSTRUCTION SET RECORD DOCUMENTS**

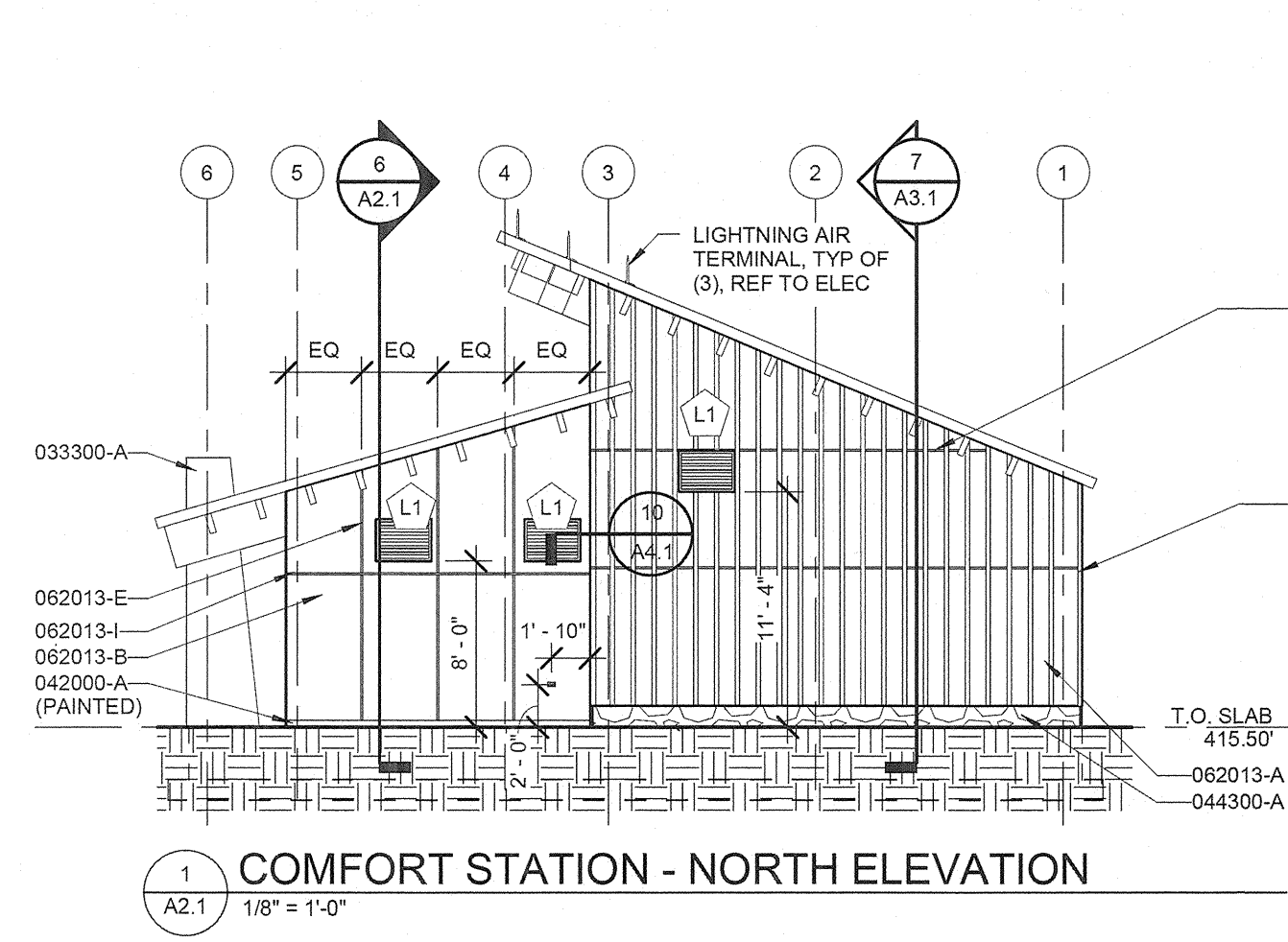
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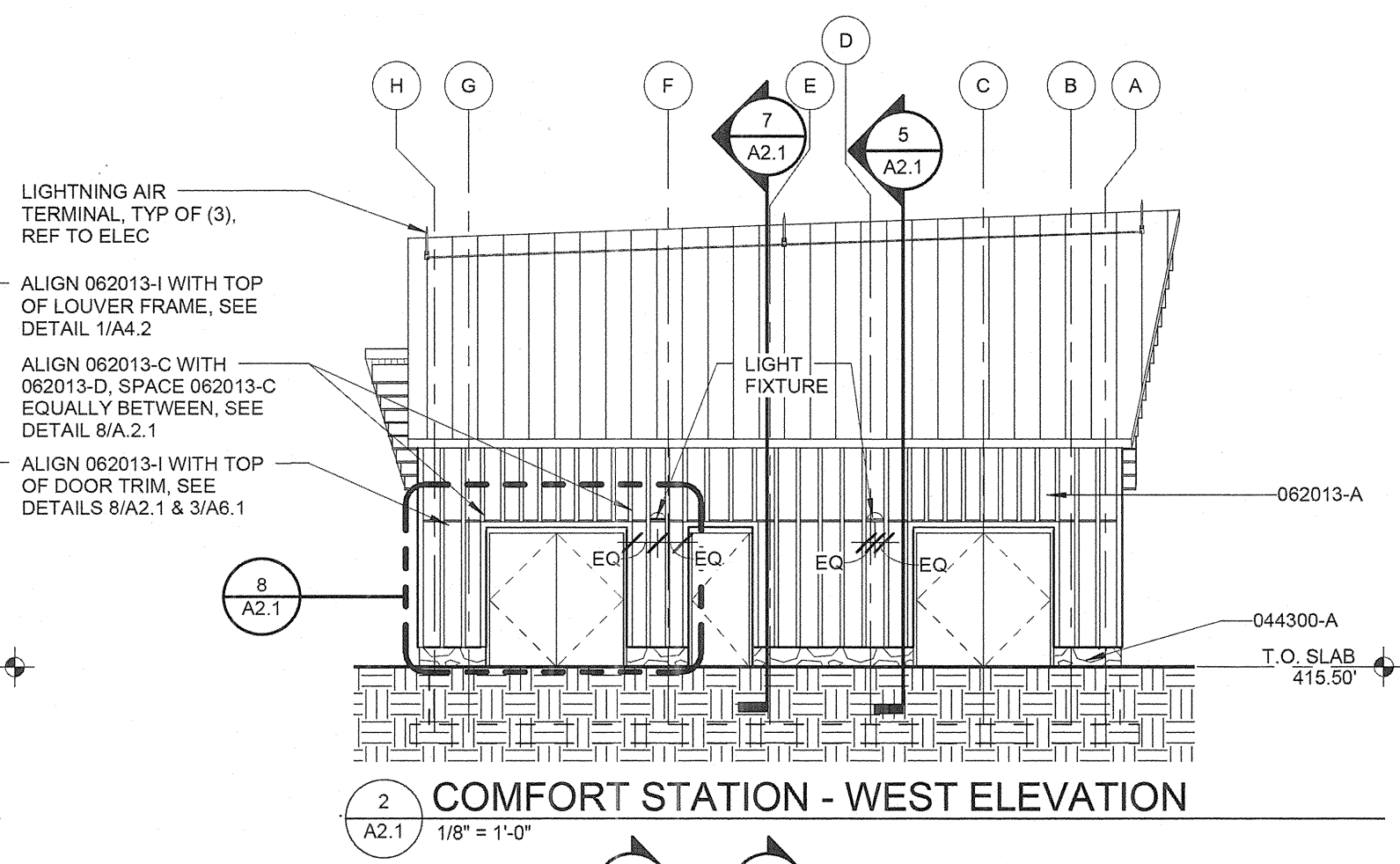
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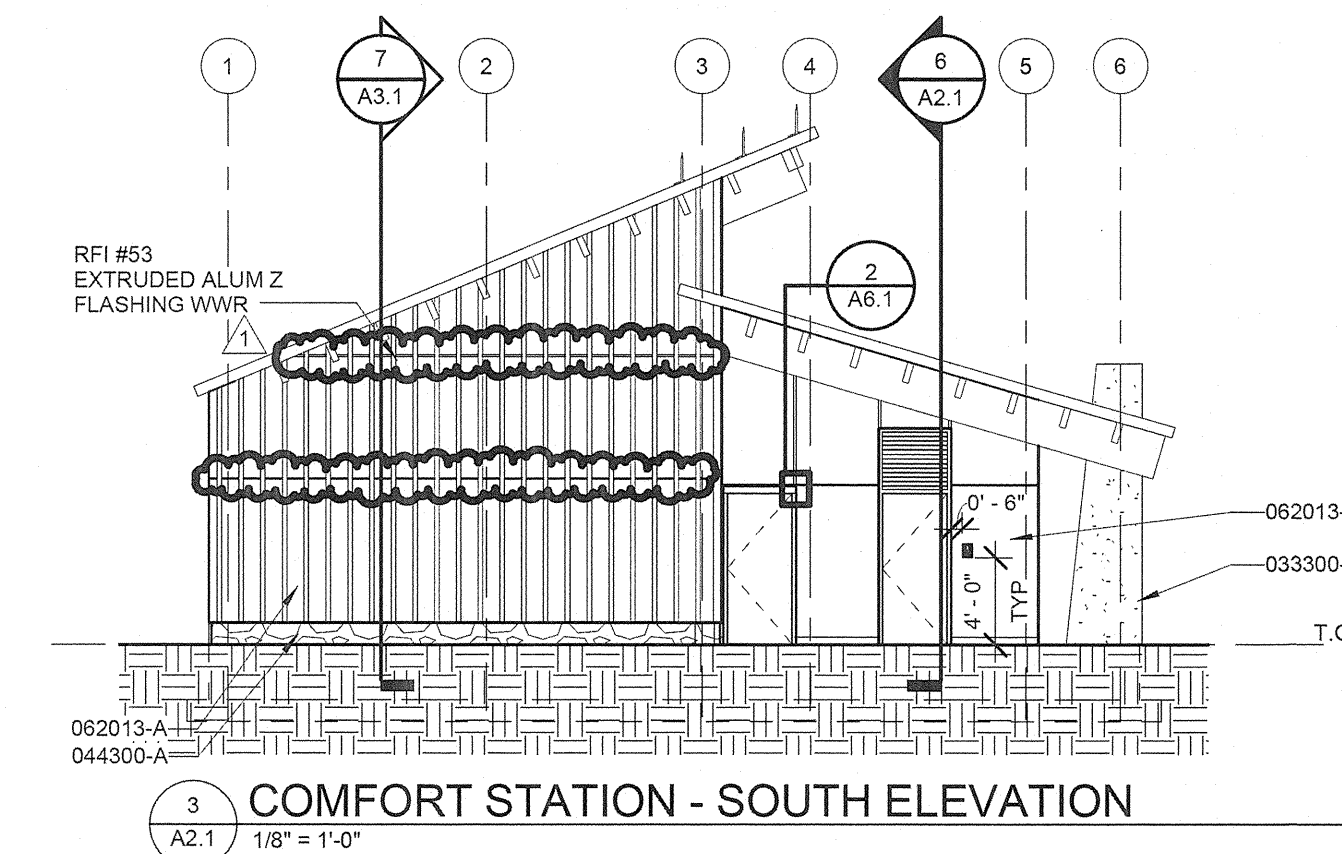




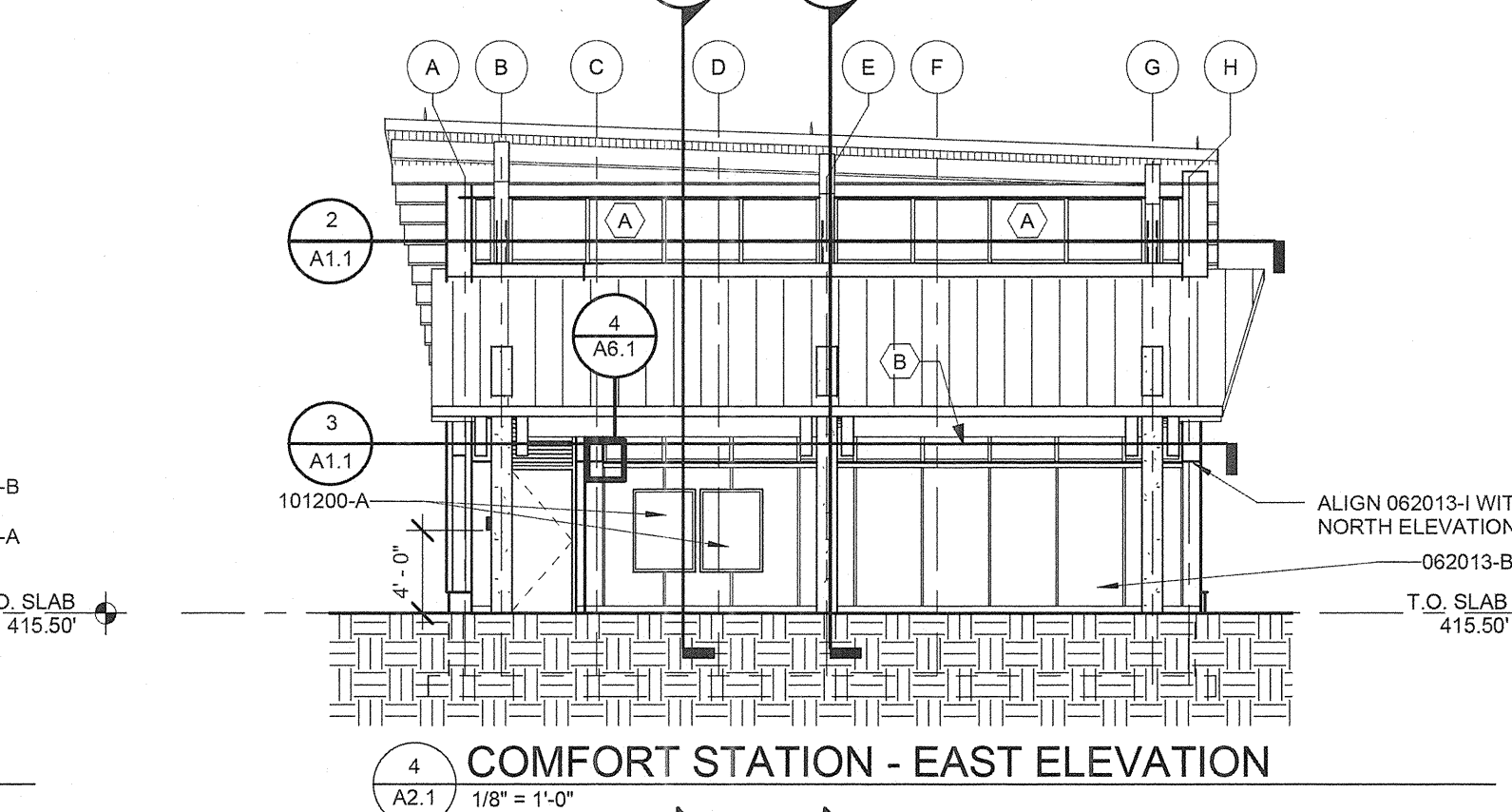
1 COMFORT STATION - NORTH ELEVATION  
A2.1 1/8" = 1'-0"



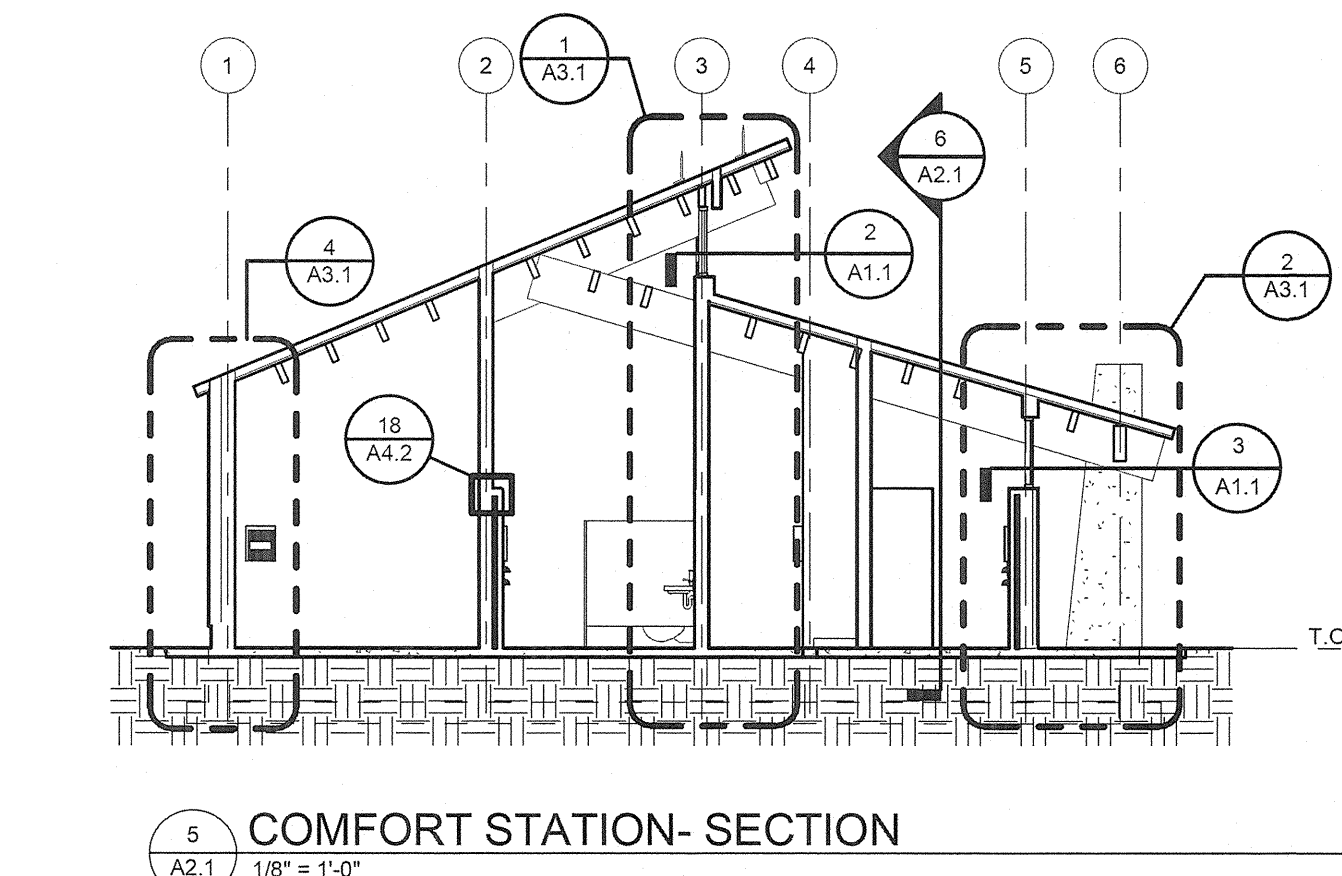
2 COMFORT STATION - WEST ELEVATION  
A2.1 1/8" = 1'-0"



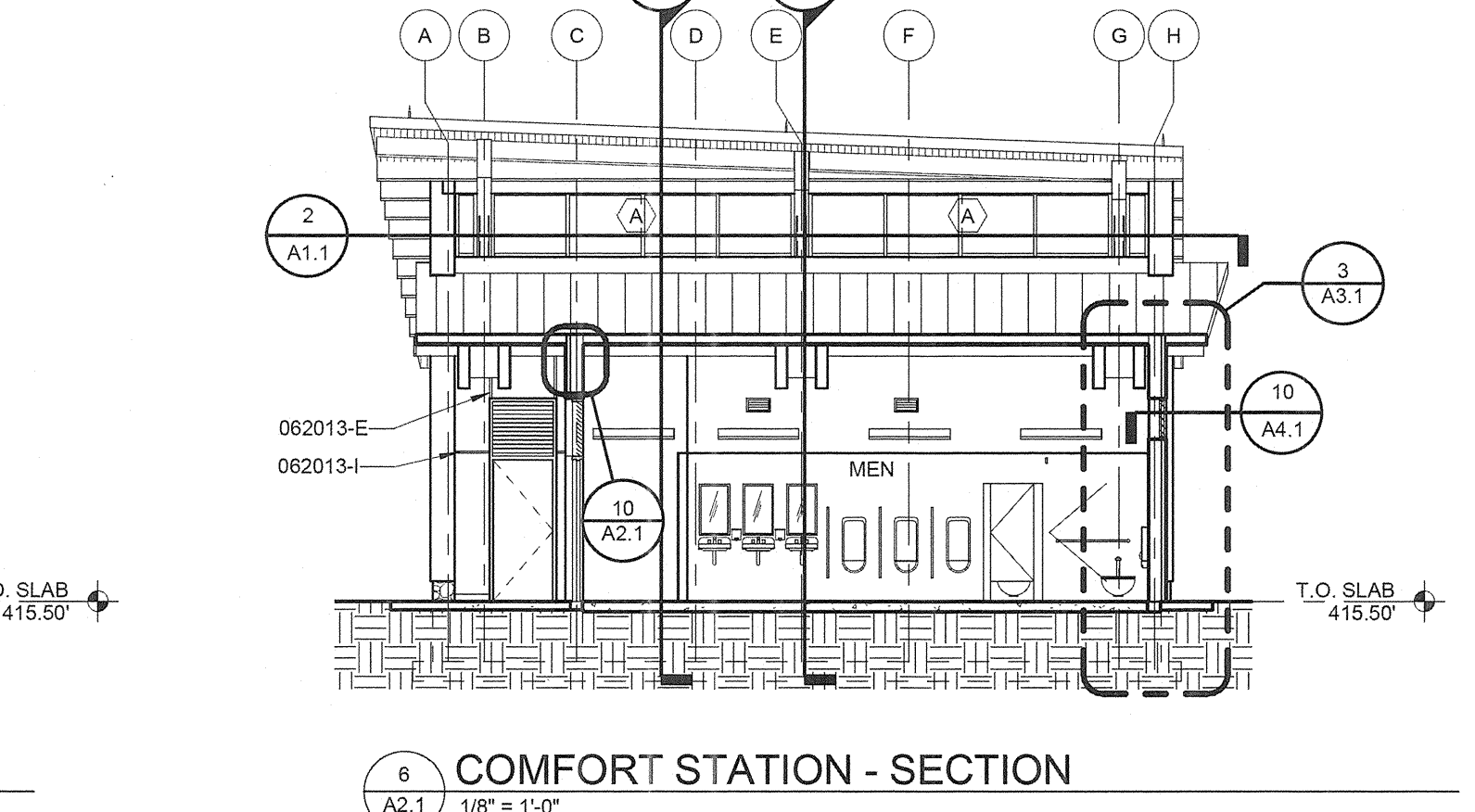
3 COMFORT STATION - SOUTH ELEVATION  
A2.1 1/8" = 1'-0"



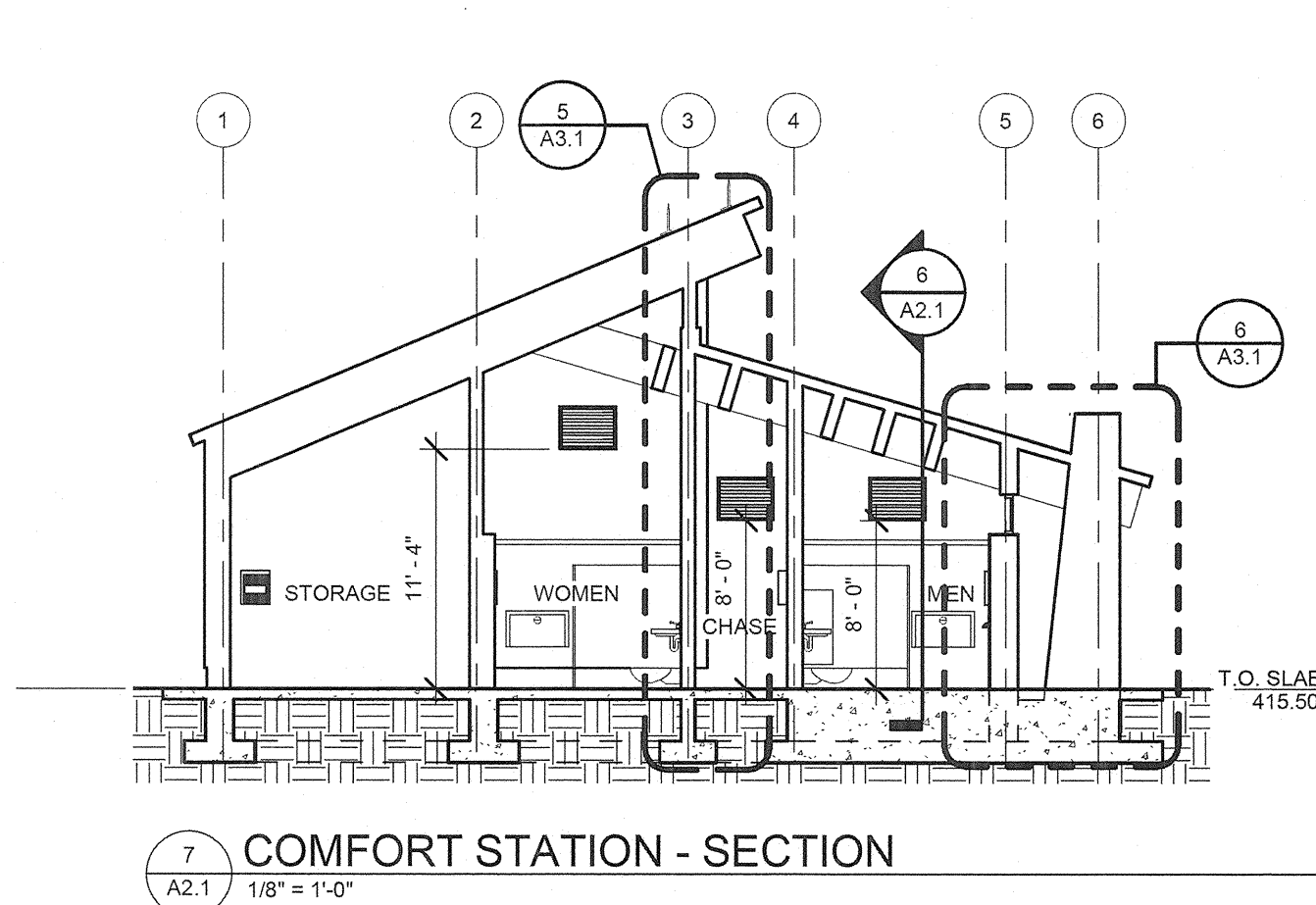
4 COMFORT STATION - EAST ELEVATION  
A2.1 1/8" = 1'-0"



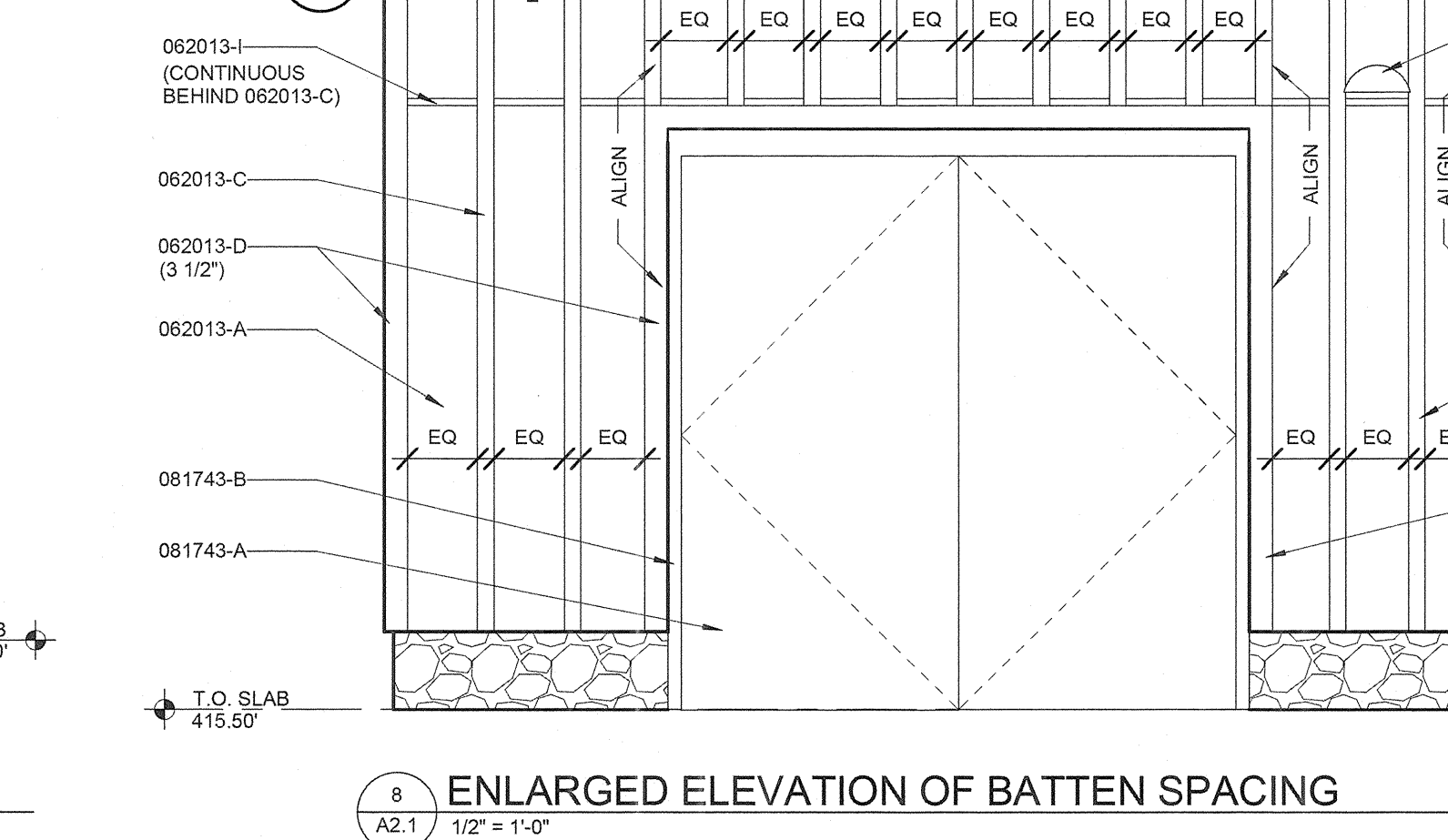
5 COMFORT STATION - SECTION  
A2.1 1/8" = 1'-0"



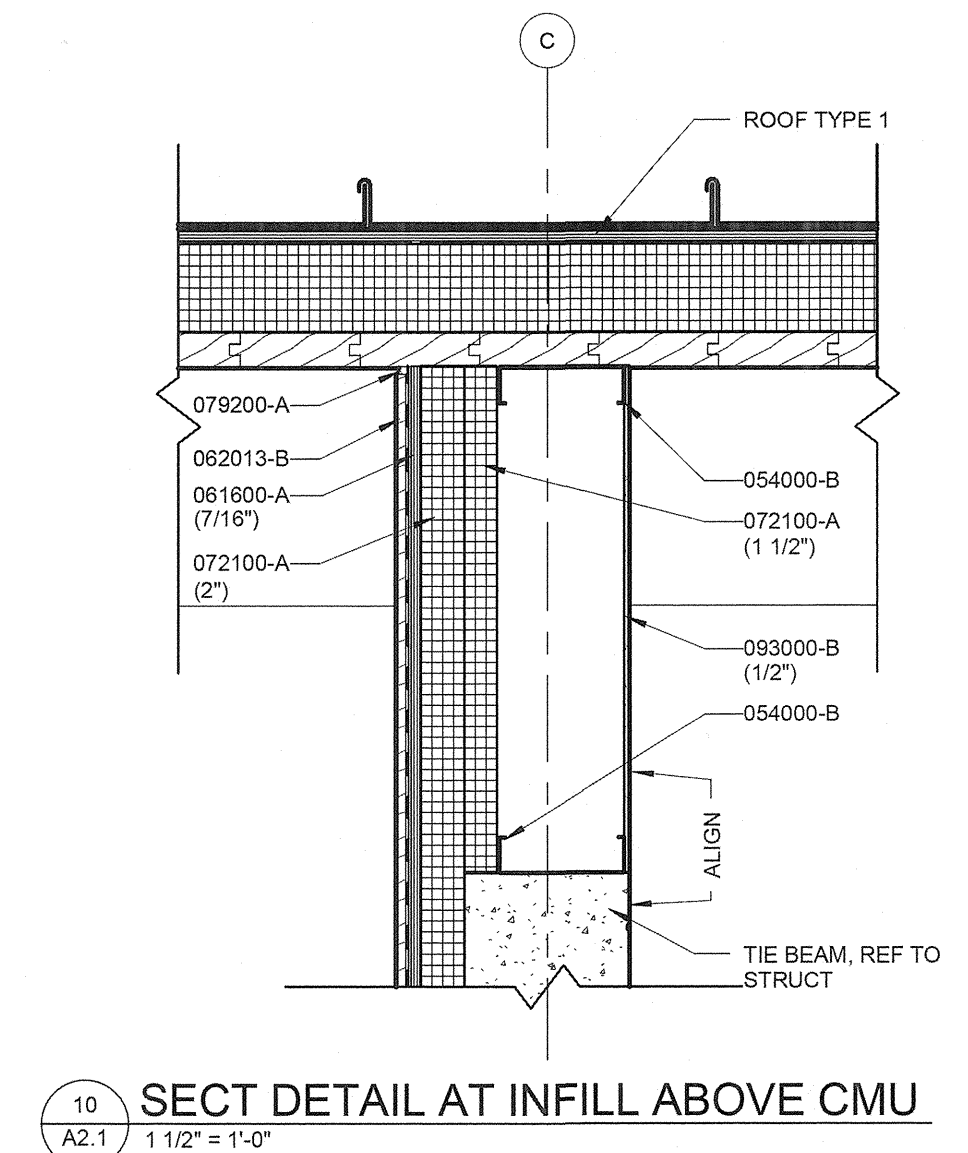
6 COMFORT STATION - SECTION  
A2.1 1/8" = 1'-0"



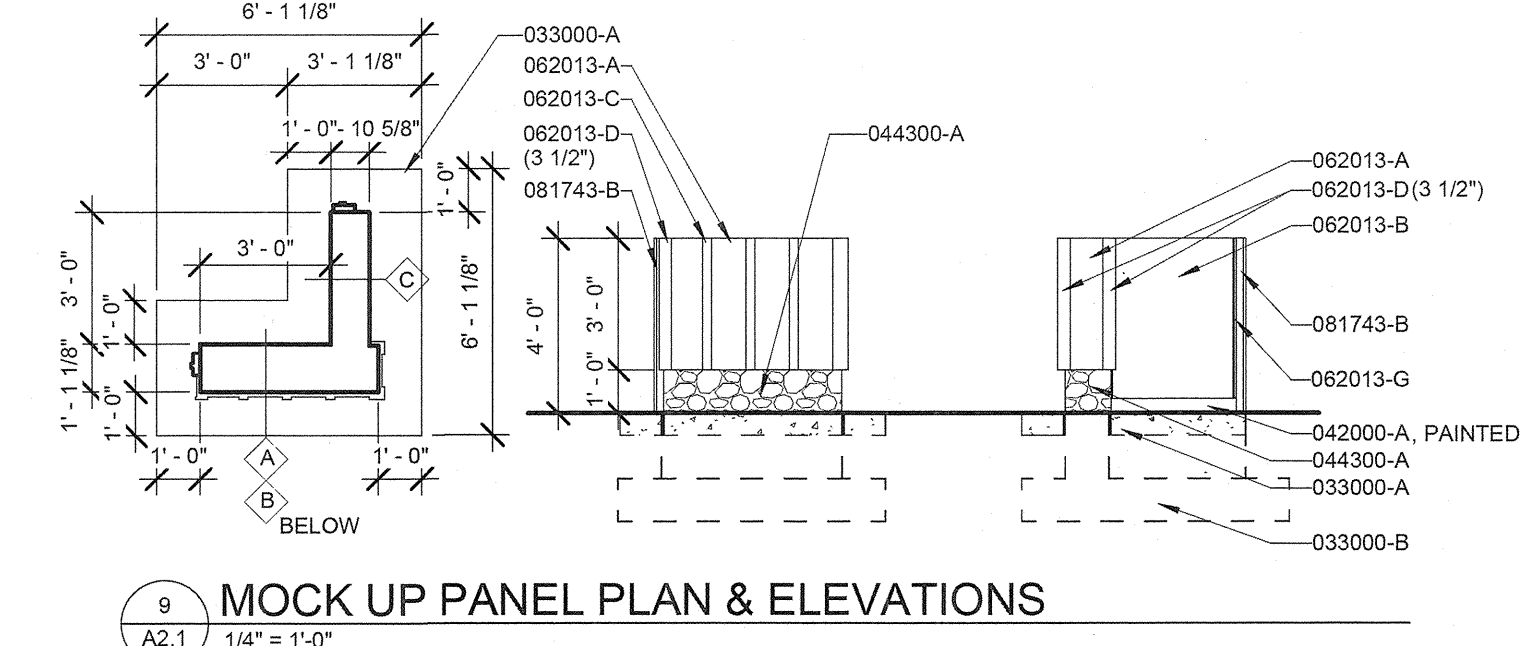
7 COMFORT STATION - SECTION  
A2.1 1/8" = 1'-0"



8 ENLARGED ELEVATION OF BATTEN SPACING  
A2.1 1/2" = 1'-0"



10 SECT DETAIL AT INFILL ABOVE CMU  
A2.1 1 1/2" = 1'-0"



9 MOCK UP PANEL PLAN & ELEVATIONS  
A2.1 1/4" = 1'-0"

KEYNOTES LISTED ON THIS SHEET ARE FOR CONVENIENCE ONLY. REFER TO SHEET A1.0 FOR COMPLETE LIST.

KEYNOTE	DESCRIPTION
033000-A	CONCRETE SLAB ON GRADE; REFER TO STRUCTURAL DOCUMENTS FOR FULL DESCRIPTION
033000-B	CONCRETE FOOTING; REFER TO STRUCTURAL DOCUMENTS FOR FULL DESCRIPTION
033300-A	CONCRETE COLUMN; ARCHITECTURAL CONCRETE; REFER TO STRUCTURAL DOCUMENTS FOR FULL DESCRIPTION
042000-A	CONCRETE MASONRY UNIT; NOMINAL WIDTH AS INDICATED
044300-A	STONE VENER; NOMINAL WIDTH AS INDICATED
054000-B	NON-LOAD BEARING STEEL STUDS AT 16" O.C.; SIZE AS INDICATED
061600-A	EXTERIOR PLYWOOD WALL SHEATHING; THICKNESS AS INDICATED
062013-A	CEMENT BOARD SIDING (5/16")
062013-B	CEMENT BOARD SIDING (7/16")
062013-C	3/4" THICK CEMENT BOARD TRIM; SIZE AS INDICATED
062013-D	EXTRUDED ALUMINUM VERTICAL REVEAL
062013-E	EXTRUDED ALUMINUM OUTSIDE CORNER
062013-F	EXTRUDED ALUMINUM 1/2" FLASHING
072100-A	RIGID INSULATION; THICKNESS AS INDICATED
079200-A	JOINT SEALANT AND BACKER ROD
081743-A	FIBERGLASS REINFORCED POLYESTER DOORS
081743-B	ALUMINUM DOOR FRAME
093000-B	CEMENTITIOUS BACKER BOARD; SIZE AS INDICATED
101200-A	DISPLAY CASE WITH PLASTIC-IMPREGNATED CORK TACKBOARD

REVISIONS	
AS BUILT	01/13/14

HOWARD COUNTY  
DEPARTMENT OF RECREATION AND PARKS  
7120 OAKLAND MILLS ROAD  
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9250 BENDIX ROAD  
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PROPERTY  
TAX MAP 36, GRID 5, PARCEL 3.72  
ZONING: RC-DEO  
ELECTION DISTRICT 3/7

GRAPHIC SCALES

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BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

COMFORT STATION BUILDING ELEVATIONS & SECTIONS  
Drawing No. **A2.1**  
Scale: As indicated  
Date: 11/28/2011 Sheet 15 of 55  
Des: Drawn: MDP Check: LAA

**CONSTRUCTION SET RECORD DOCUMENTS**  
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6/12/12



RFI Transmittal

RFI ID: RFI-061A  
Transmittal ID: 00349  
Date Sent: 12/3/2012

Project: Blandair Park-Phase I  
Number: 0811.1

To: Bert Bunn  
Ithana  
3660 Bessemer Road  
Mount Pleasant, SC 29466  
United States  
843-566-7800 (Phone)  
843-566-7841 (Fax)

From: Brian Dunn  
GWWO, Inc./Architects  
890 Wymon Park  
Suite 300  
Baltimore, MD 21211  
US  
(410) 332-1009 x5076 (Phone)  
(410) 332-0038 (Fax)

Subject: Concrete Elevation at IC3

Via: Email  
Purpose: Answered  
Question: See attached additional info

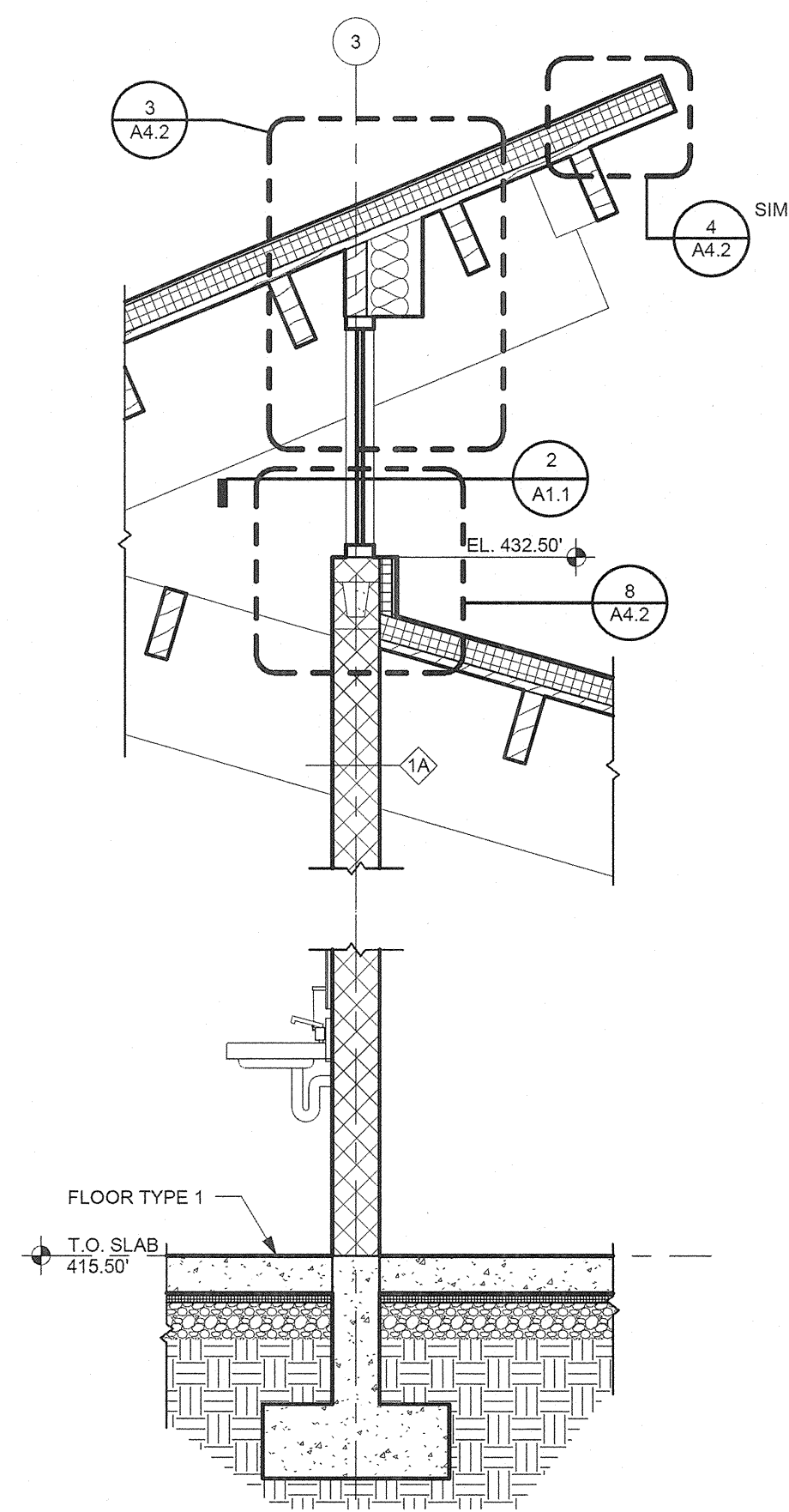
Suggestion:  
Answer: It is acceptable to remove the concrete down to the elevation of column C1A. Remove concrete carefully so as not to damage the steel column. If no damage is visible proceed to finish paint with the rest of the exposed metal. If steel is damaged so as to make it visibly different than the in-place columns then replace concrete after steel connections have been made.

CC: Walt Lewis(Ithana)  
Mark Kovach(Howard County Department of Public Works)  
Bill Roesler(Howard County Department of Public Works)  
Jim Jett(Whitman, Requardt & Associates, LLP)  
Steve Mack(WRA)  
Eric Feiss(GWWO, Inc./Architects)

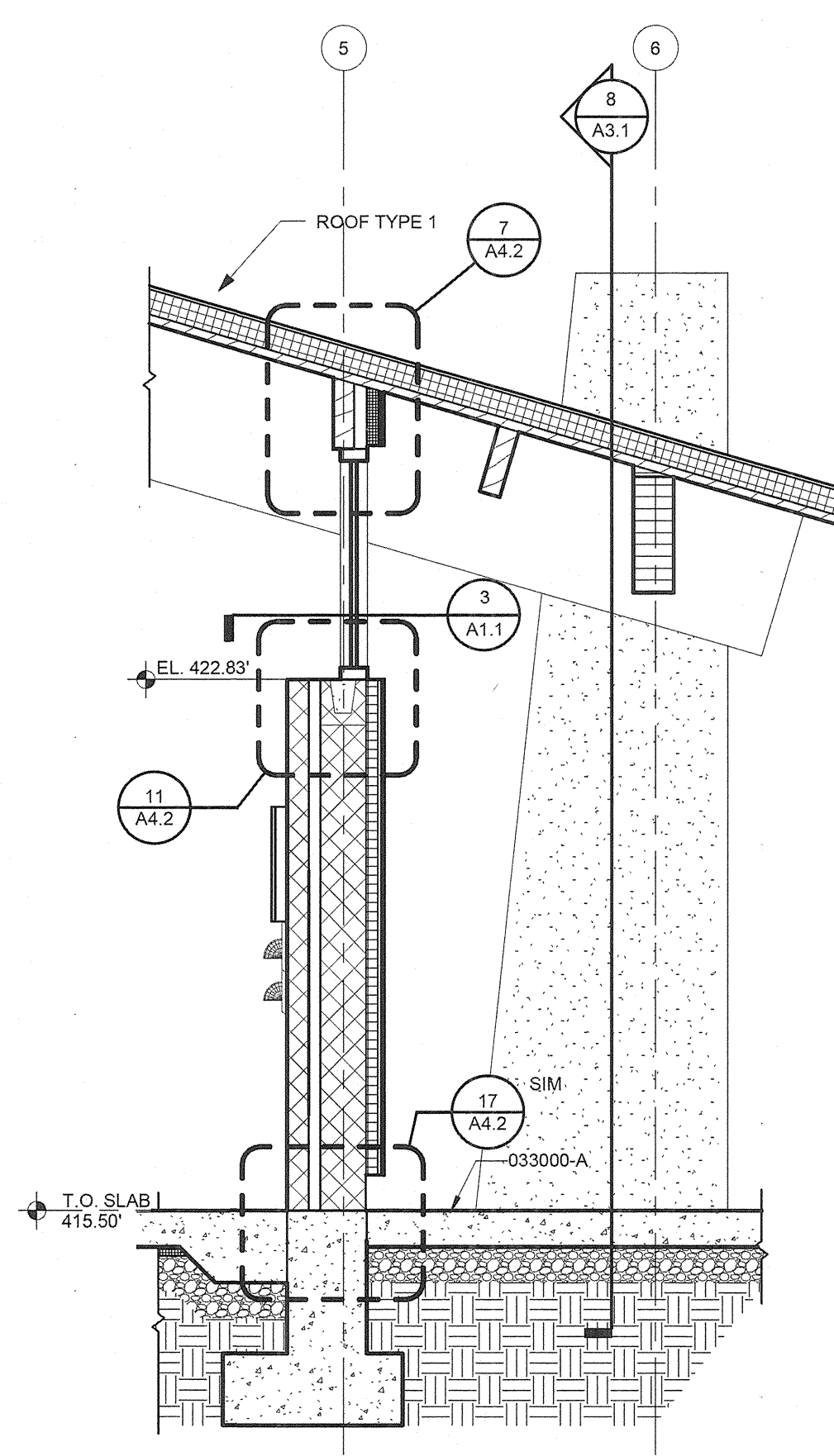
Description of Contents					
Quantity	Title	Number	Date	Scale	Size
1	RFI #61R1 Steel Connection for Beam at C1A Column at PS.pdf		12/3/2012		



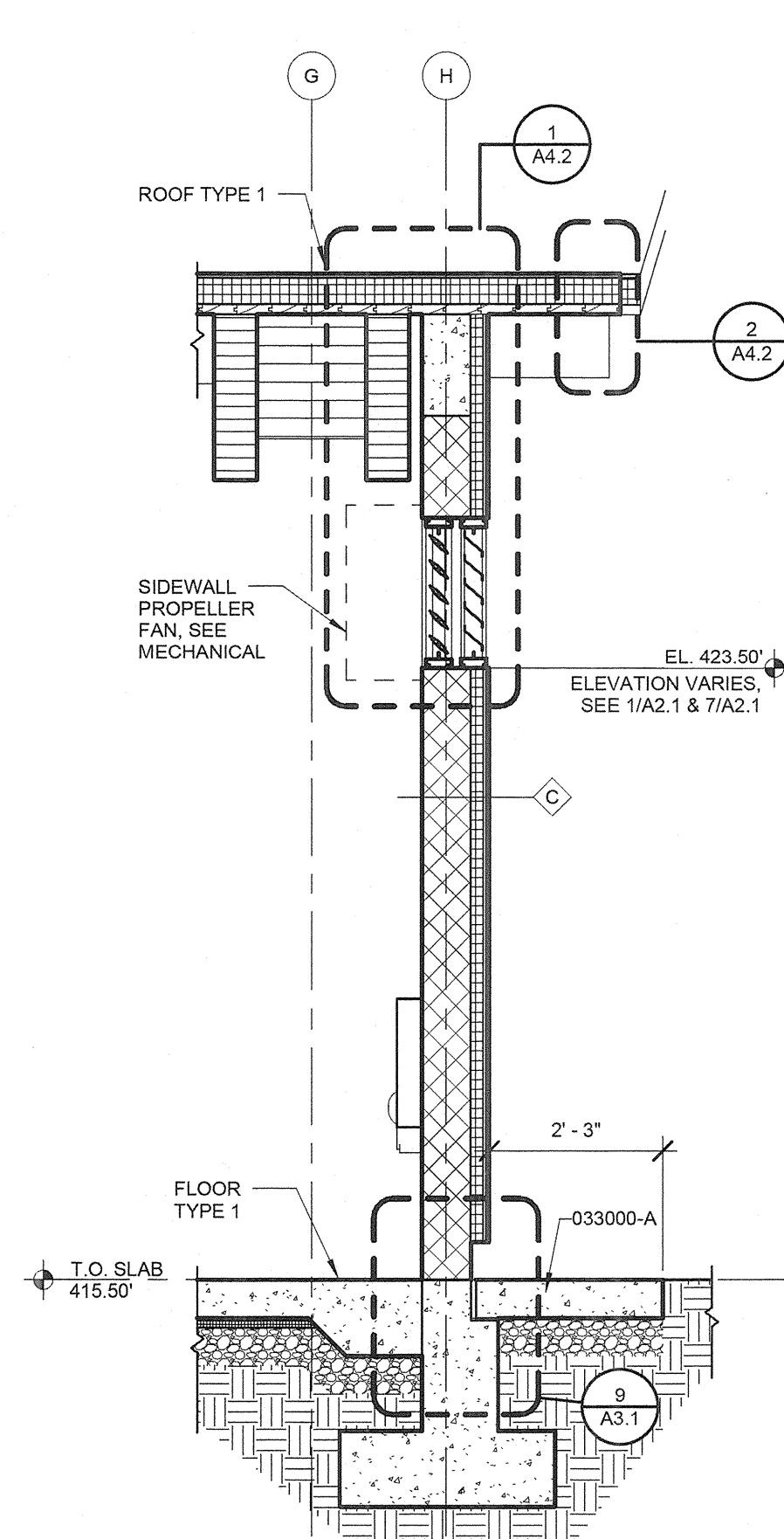
C:\Users\mm\Documents\10811-RECORD\_2012\_CS-1\_MRM.rvt  
11/4/2014 2:51:24 PM



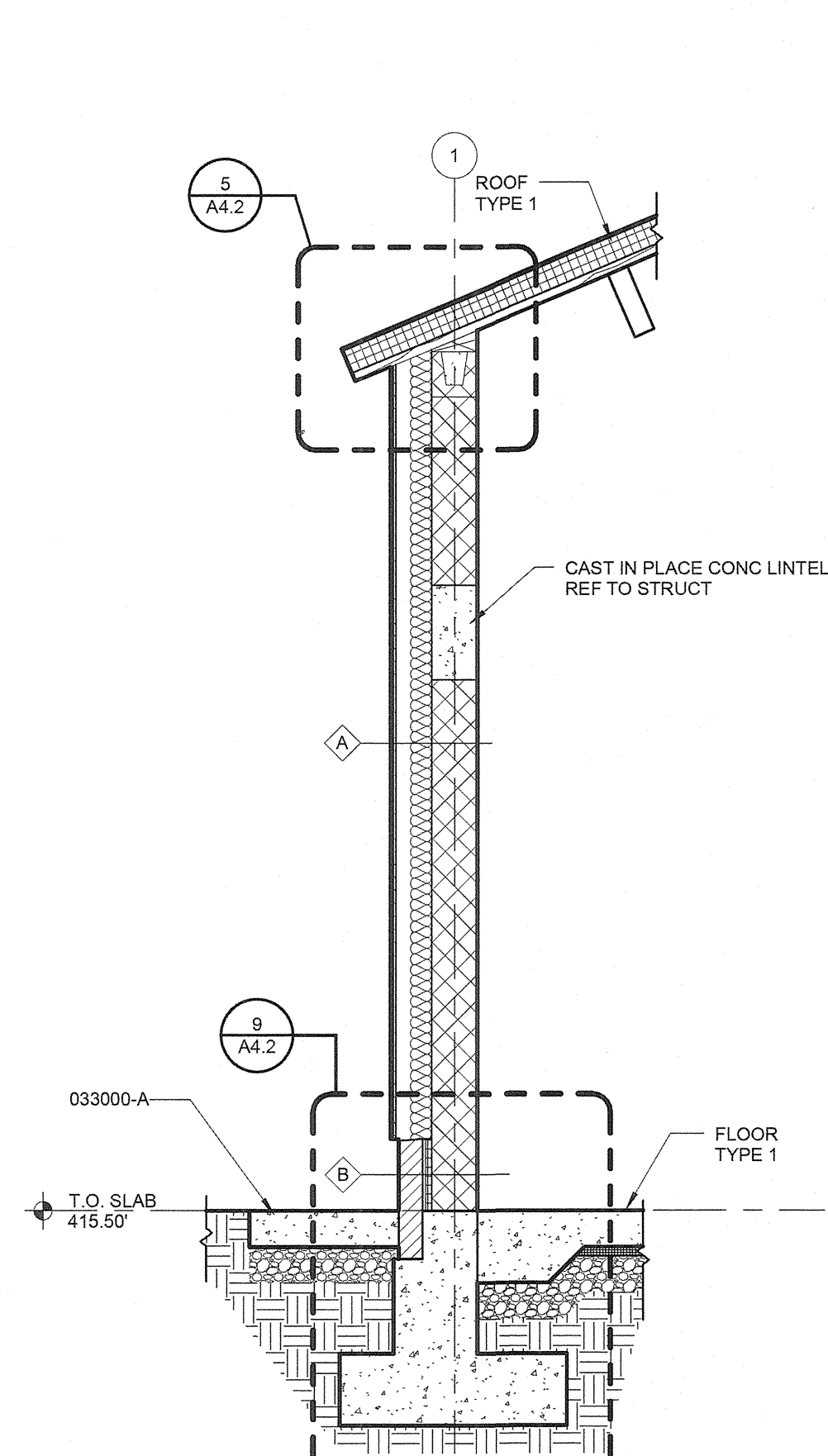
1 WALL SECTION  
A3.1 1/2" = 1'-0"



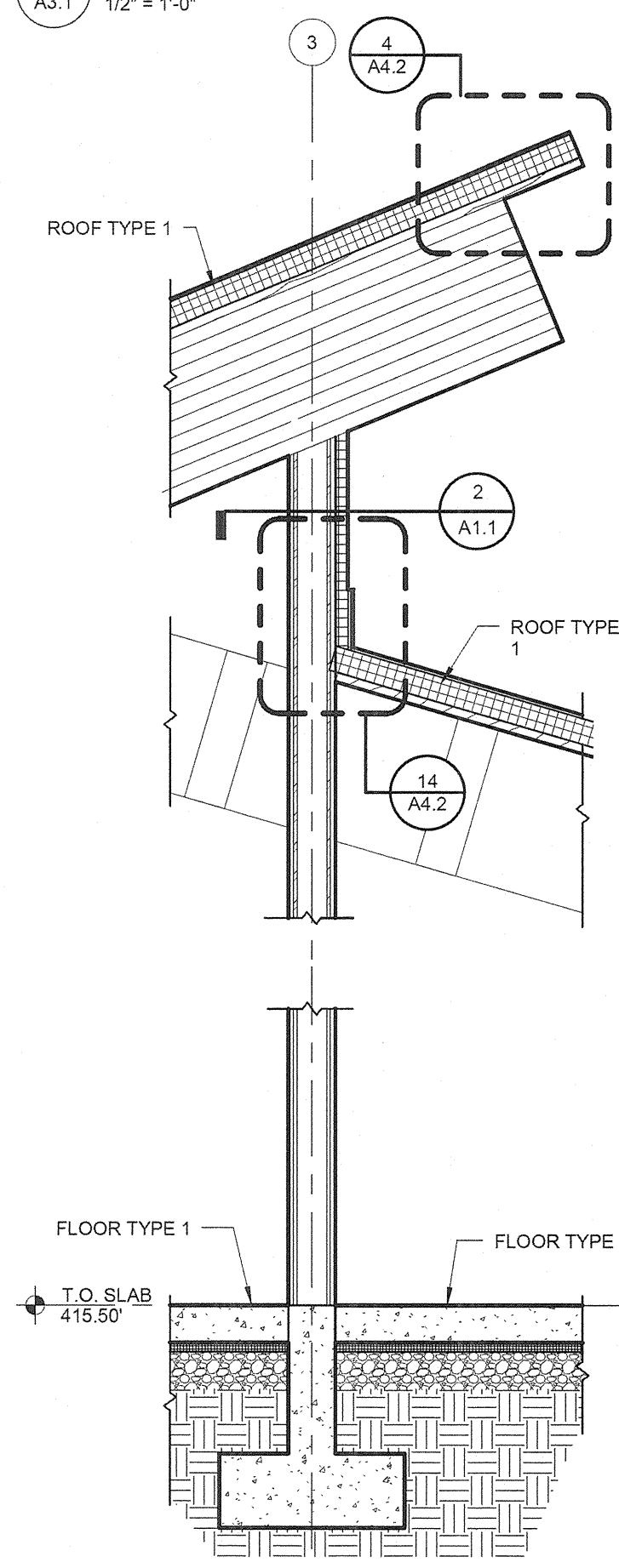
2 WALL SECTION  
A3.1 1/2" = 1'-0"



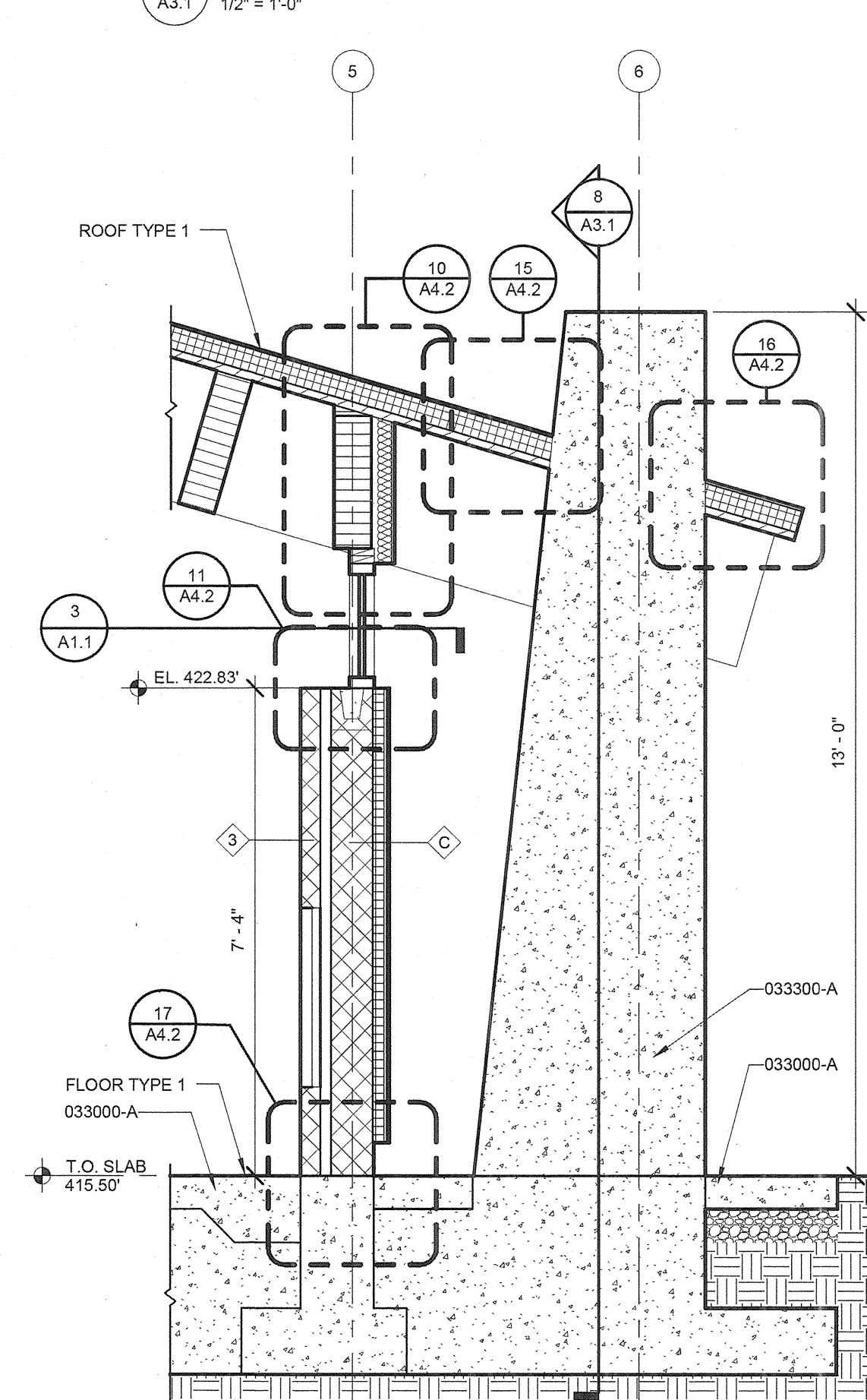
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A3.1 1/2" = 1'-0"



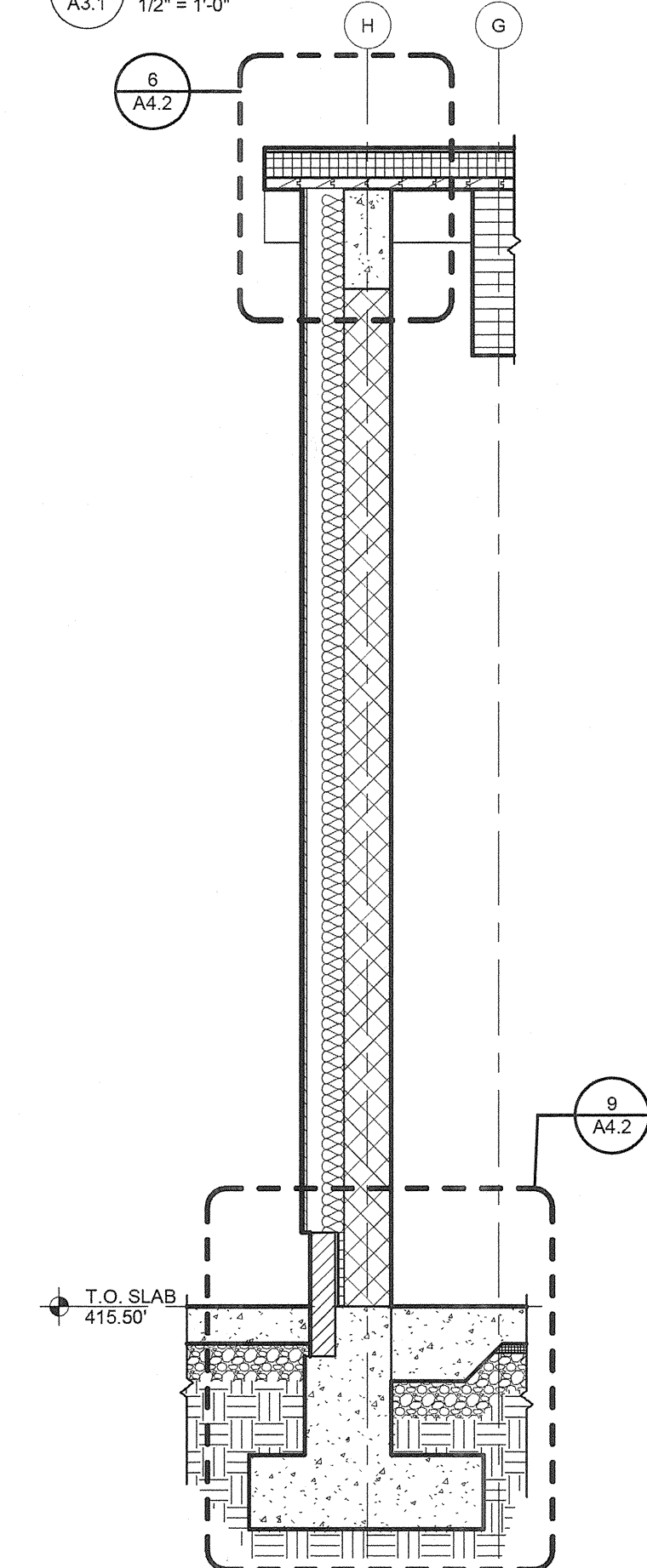
4 WALL SECTION  
A3.1 1/2" = 1'-0"



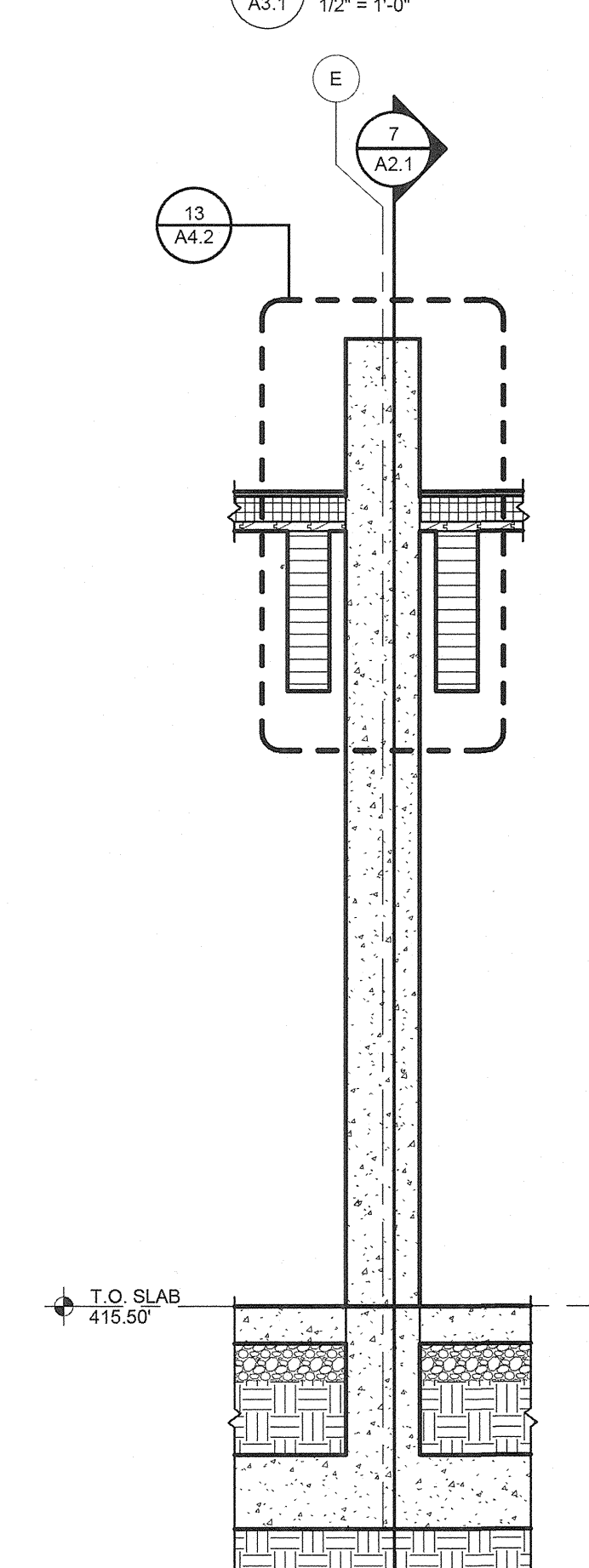
5 WALL SECTION  
A3.1 1/2" = 1'-0"



6 WALL SECTION  
A3.1 1/2" = 1'-0"



7 WALL SECTION  
A3.1 1/2" = 1'-0"



8 COLUMN SECTION  
A3.1 1/2" = 1'-0"

KEYNOTES LISTED ON THIS SHEET ARE FOR CONVENIENCE ONLY. REFER TO SHEET A1.0 FOR COMPLETE LIST.

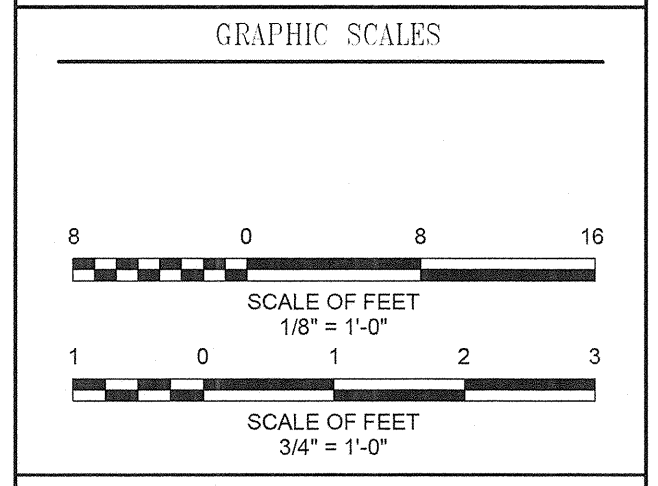
KEYNOTE	DESCRIPTION
033000-A	CONCRETE SLAB ON GRADE; REFER TO STRUCTURAL DOCUMENTS FOR FULL DESCRIPTION
033300-A	CONCRETE COLUMN; ARCHITECTURAL CONCRETE; REFER TO STRUCTURAL
061000-B	WOOD BLOCKING
061000-D	NOT USED

REVISIONS	

HOWARD COUNTY  
DEPARTMENT OF RECREATION AND PARKS  
7120 OAKLAND MILLS ROAD  
COLUMBIA, MD 21046  
DEPARTMENT OF PUBLIC WORKS  
9250 BENDIX ROAD  
ELLICOTT CITY, MD 21043

**WR&A**  
WHITMAN, REQUARDT & ASSOCIATES, LLP  
801 South Caroline Street, Baltimore, Maryland 21231  
Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY  
TAX MAP 36, GRID 5, PARCEL 3.72  
ZONING: RC-DEO  
ELECTION DISTRICT 3/7



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BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

COMFORT STATION WALL SECTIONS  
Drawing No. **A3.1**  
Scale: As indicated  
Date: 11/28/2011 Sheet 17 of 55  
Des: Drawn:MDP Check:LAA

**CONSTRUCTION SET RECORD DOCUMENTS**  
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KEYNOTES LISTED ON THIS SHEET ARE FOR CONVENIENCE ONLY. REFER TO SHEET A1.0 FOR COMPLETE LIST.

KEYNOTE	DESCRIPTION
033000-A	CONCRETE SLAB ON GRADE, REFER TO STRUCTURAL DOCUMENTS FOR FULL DESCRIPTION
033300-A	CONCRETE COLUMN; ARCHITECTURAL CONCRETE, REFER TO STRUCTURAL
055000-F	STEEL PLATE VERTICAL SIDING, 1/2" THICK - SEE DRAWING 3/A3.2 FOR TYPICAL LAYOUT PATTERN
081000-D	NOT USED
081800-A	GLUE LAMINATED BEAM (REFER TO STRUCTURAL DOCUMENTS FOR FULL DESCRIPTION)
076100-E	METAL FASCIA WITH DRIP EDGE

REVISIONS	

HOWARD COUNTY  
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 7120 OAKLAND MILLS ROAD  
 COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS  
 9250 BENDIX ROAD  
 ELLICOTT CITY, MD 21043

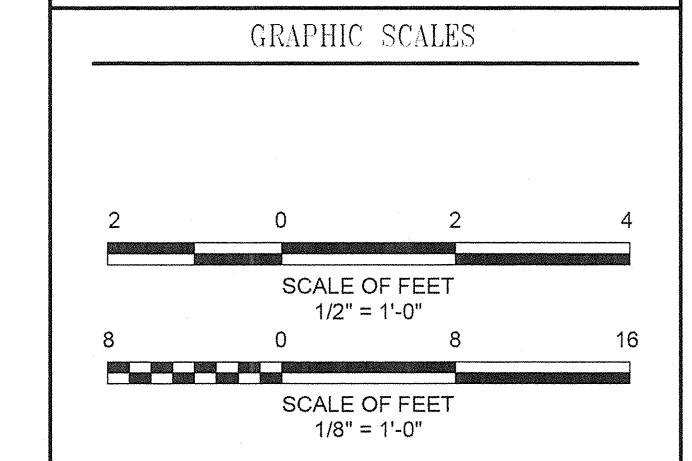
**WR&A**  
 WHITMAN, REQUARDT & ASSOCIATES, LLP  
 801 South Caroline Street, Baltimore, Maryland 21201  
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PROPERTY

TAX MAP 36, GRID 5, PARCEL 3.72

ZONING: RC-DEO

ELECTION DISTRICT 3/7



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BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

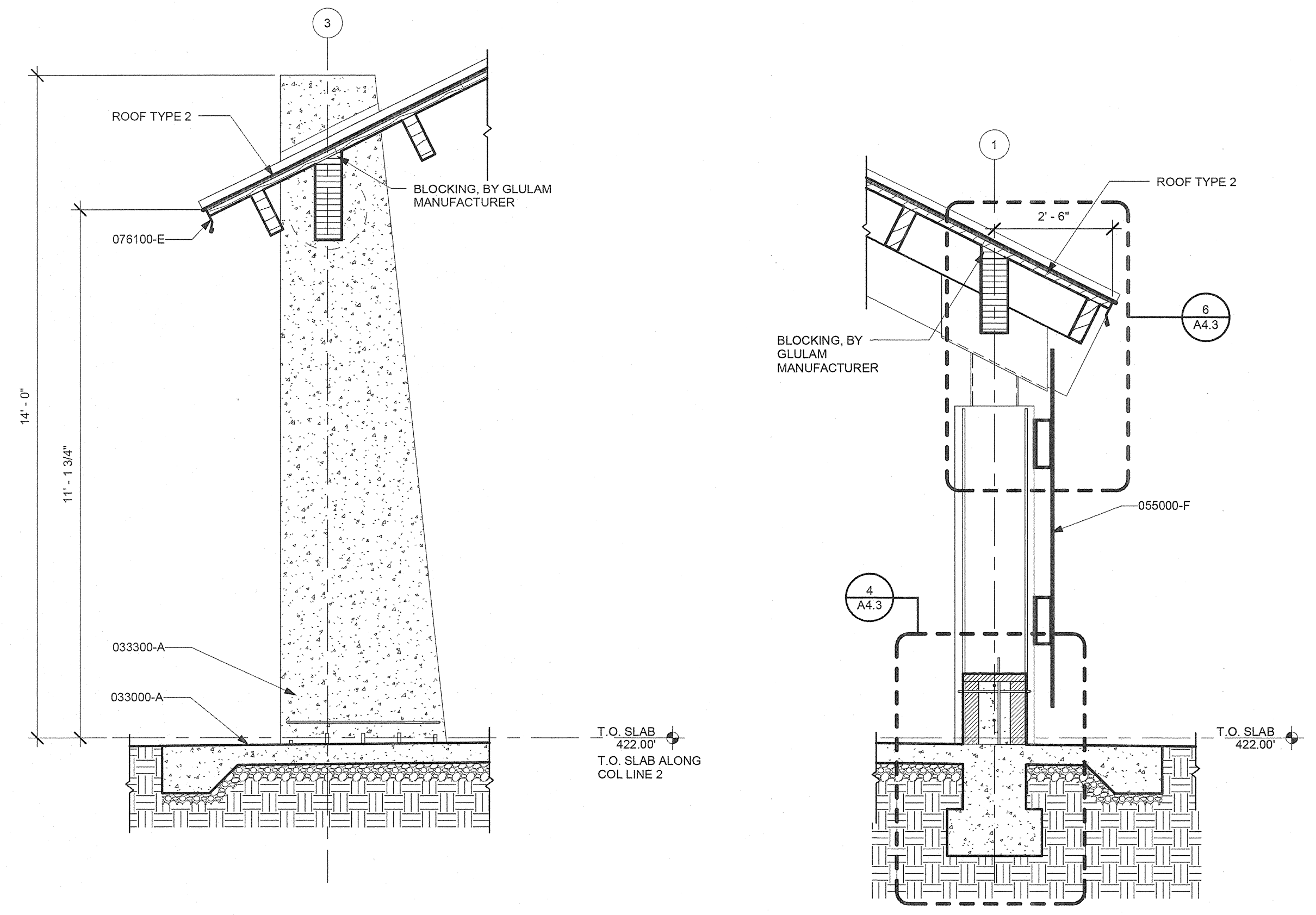
PICNIC SHELTER WALL SECTIONS

Drawing No.  
**A3.2**

Scale: 1/2" = 1'-0"

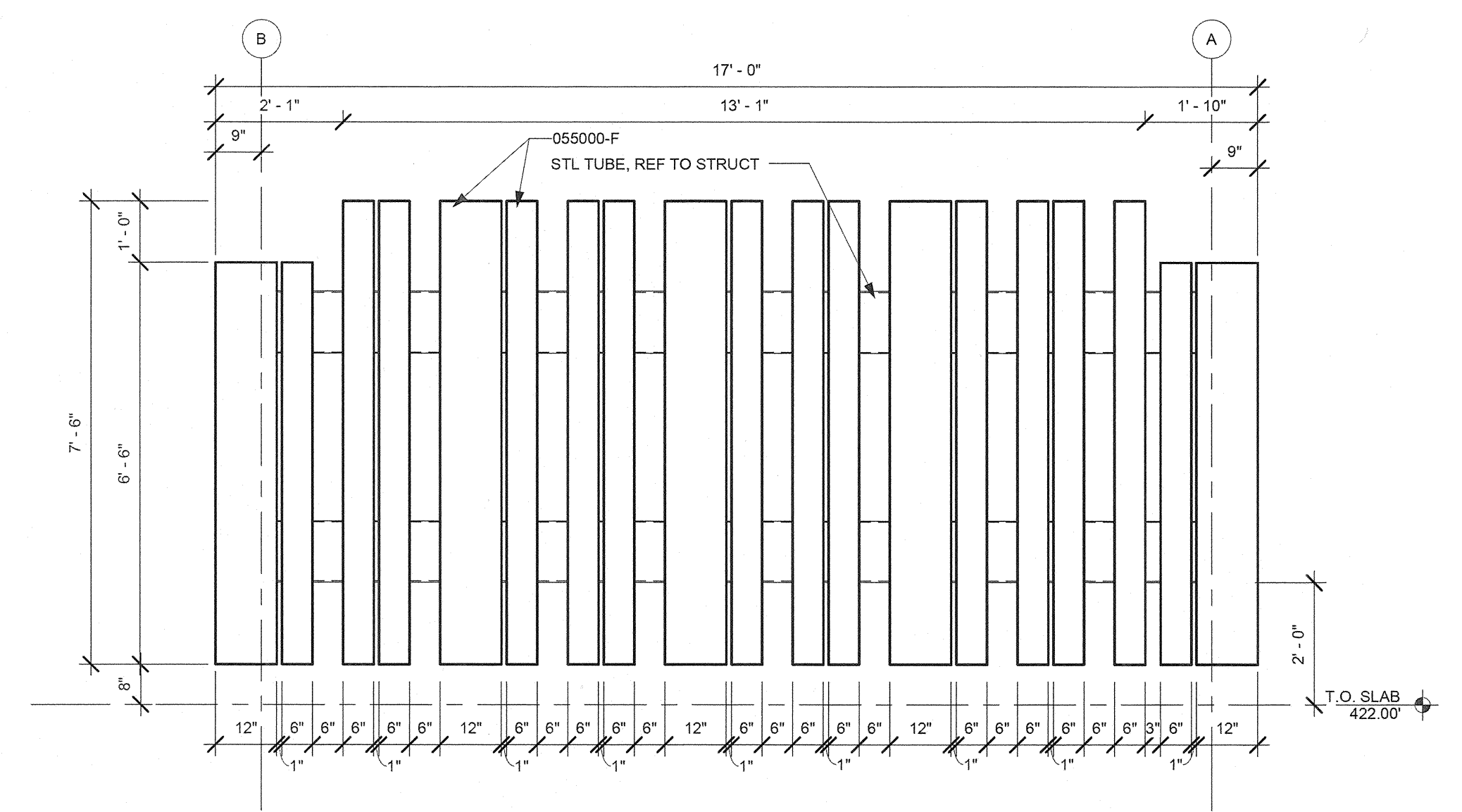
Date: 11/23/2011 Sheet 18 of 55

Des: Drawn:MDP Check:LAA



1 SECTION THRU PICNIC SHELTER ROOF  
 A3.2 1/2" = 1'-0"

2 SECTION THRU SLAT WALL  
 A3.2 1/2" = 1'-0"



3 STEEL PLATE SIDING LAYOUT- TYPICAL OF (2) PANELS  
 A3.2 1/2" = 1'-0"

**CONSTRUCTION SET RECORD DOCUMENTS**

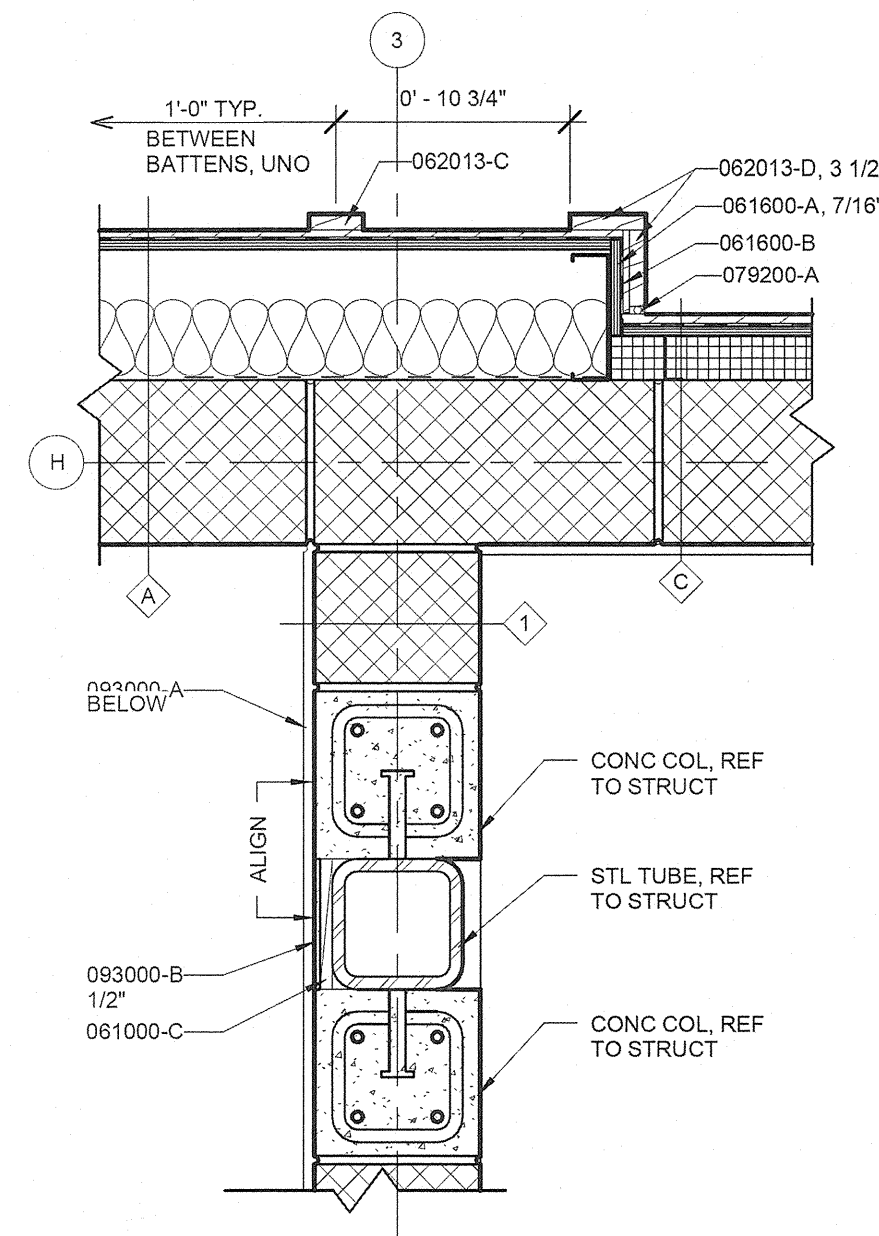
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT IS UNDER NO OBLIGATION OR DUTY TO VERIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND HAS NOT DONE SO. THE CONSULTANT SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

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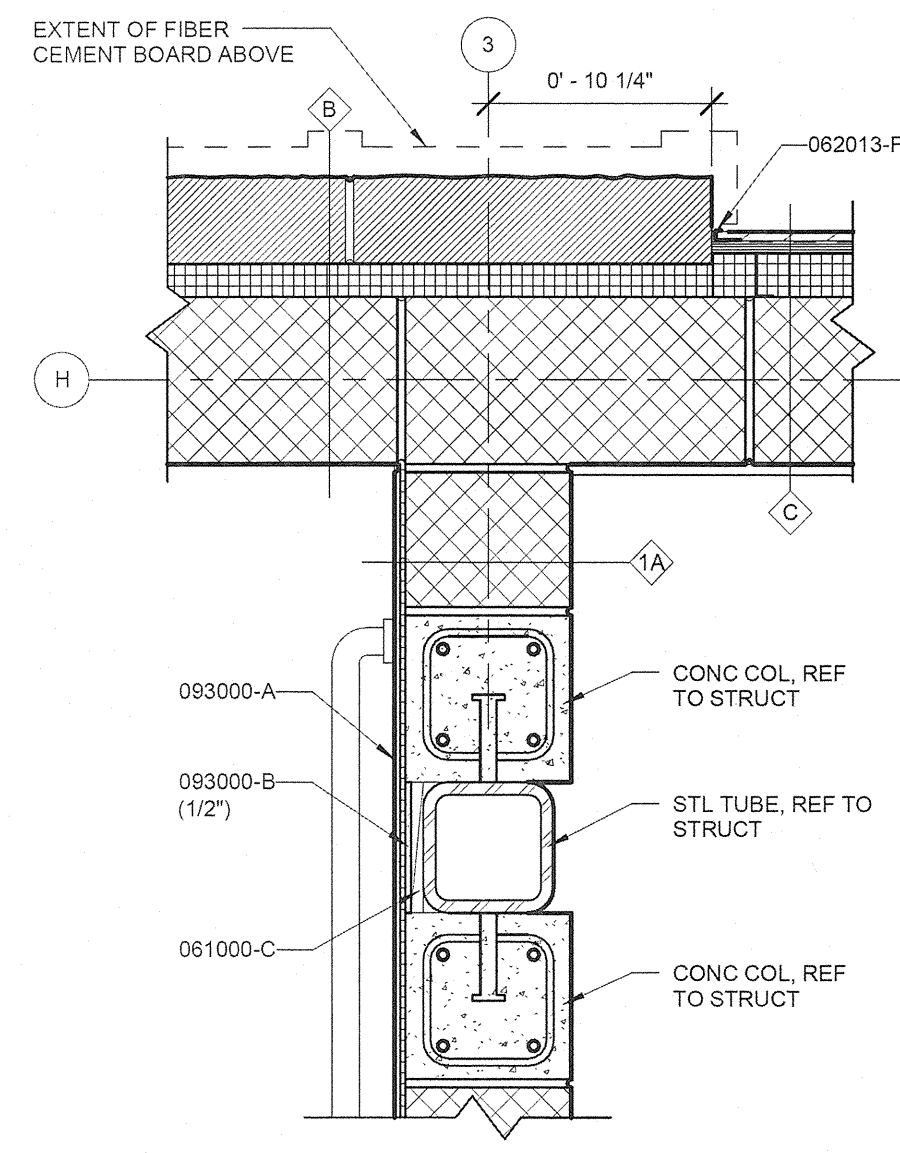
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 © 2010 GWWO INC.

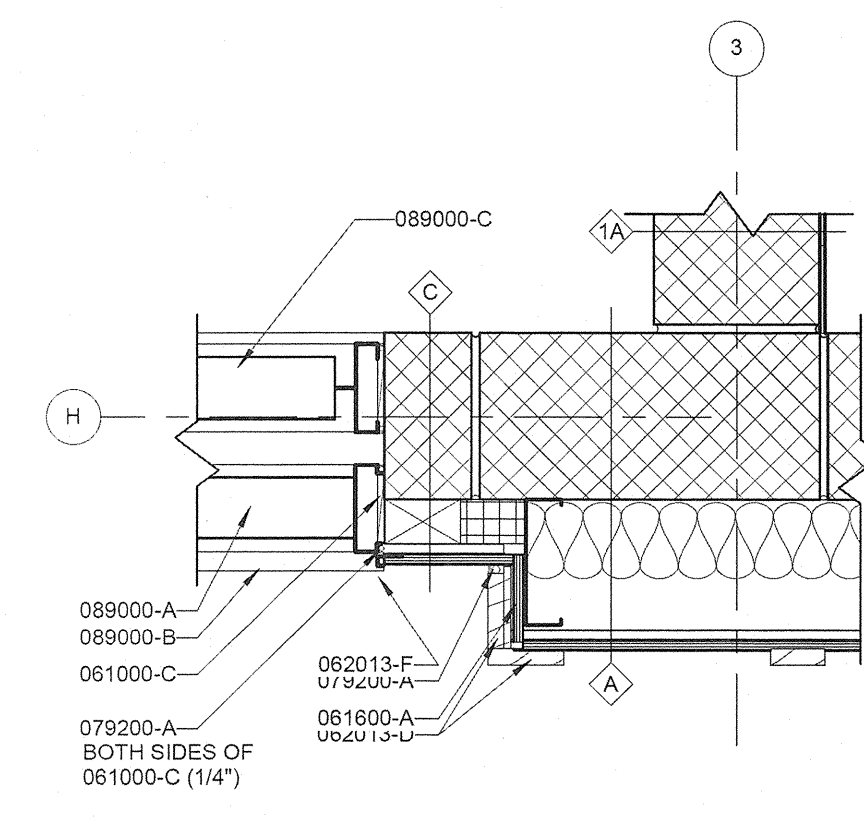




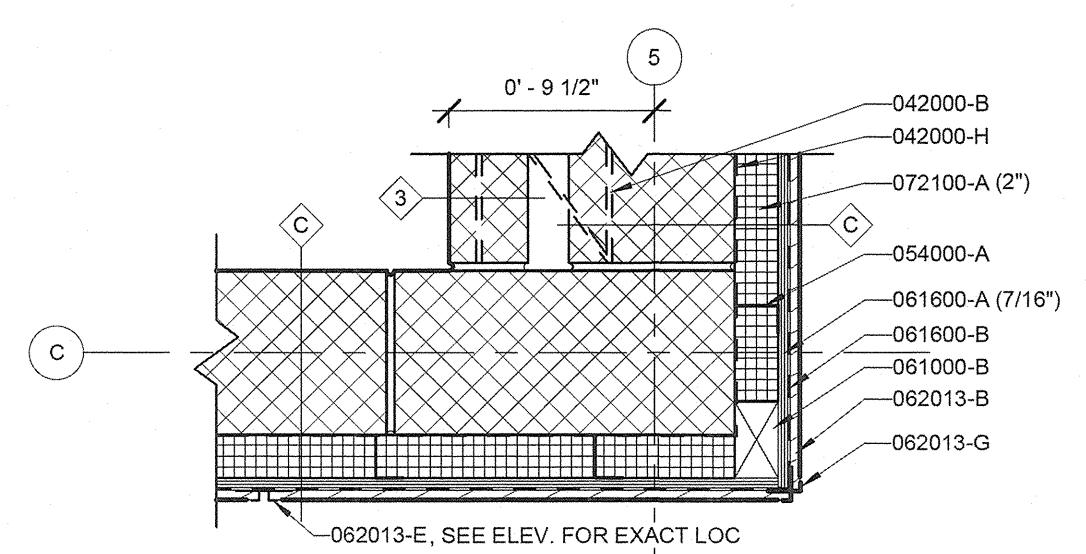
1 PLAN DETAIL (HIGH)  
A4.1 1 1/2" = 1'-0"



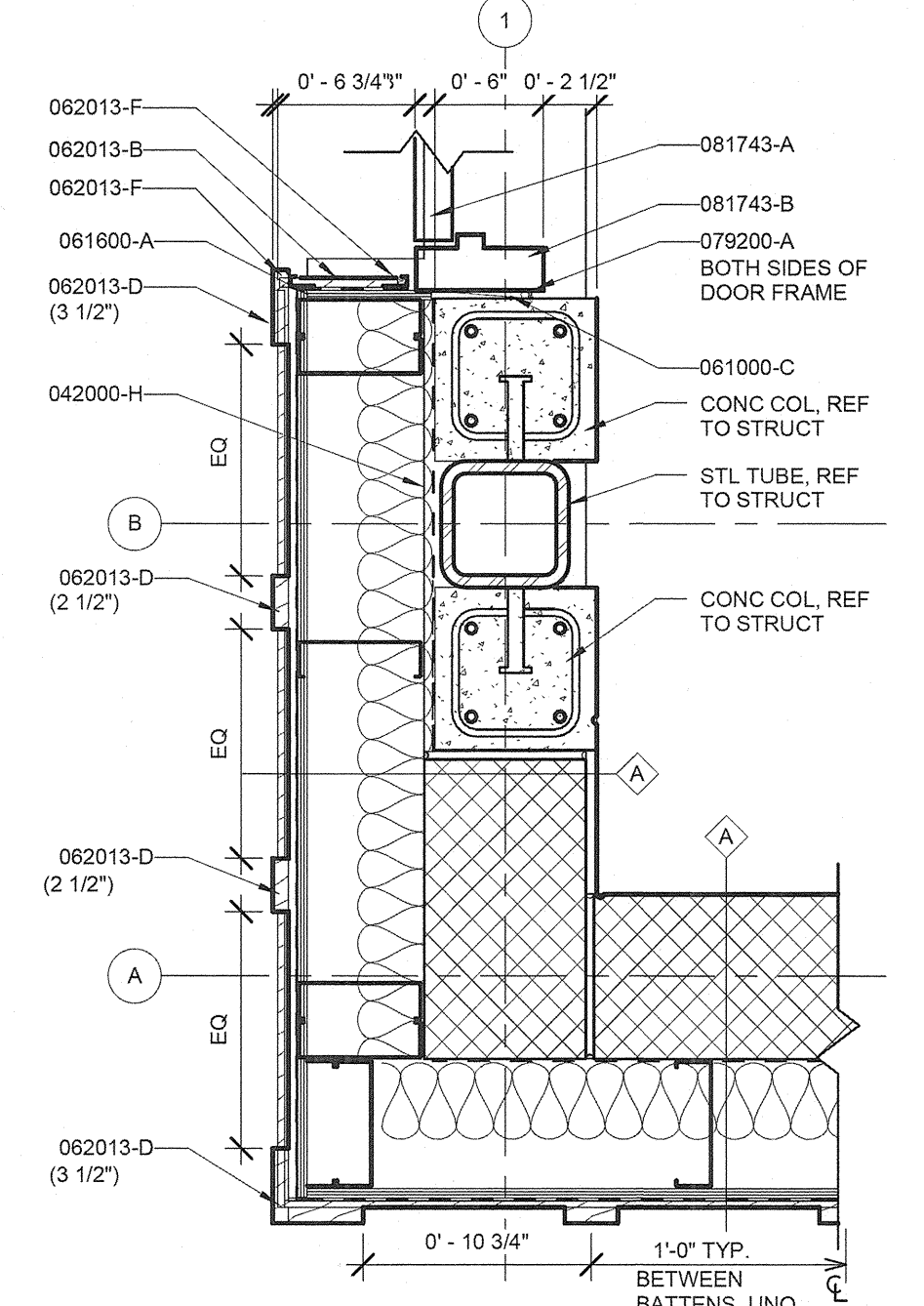
5 PLAN DETAIL (LOW)  
A4.1 1 1/2" = 1'-0"



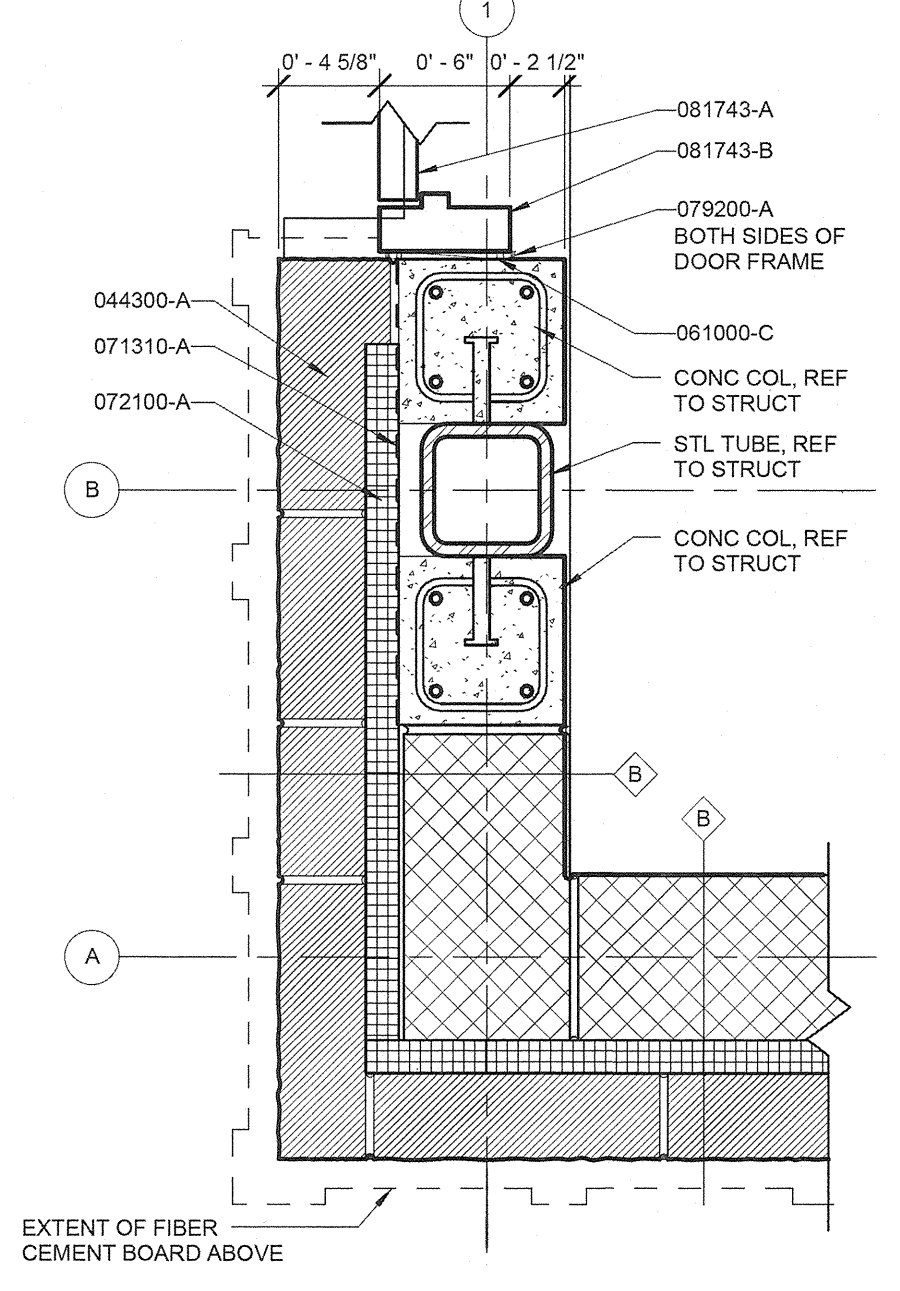
10 LOUVER JAMB DETAIL  
A4.1 1 1/2" = 1'-0"



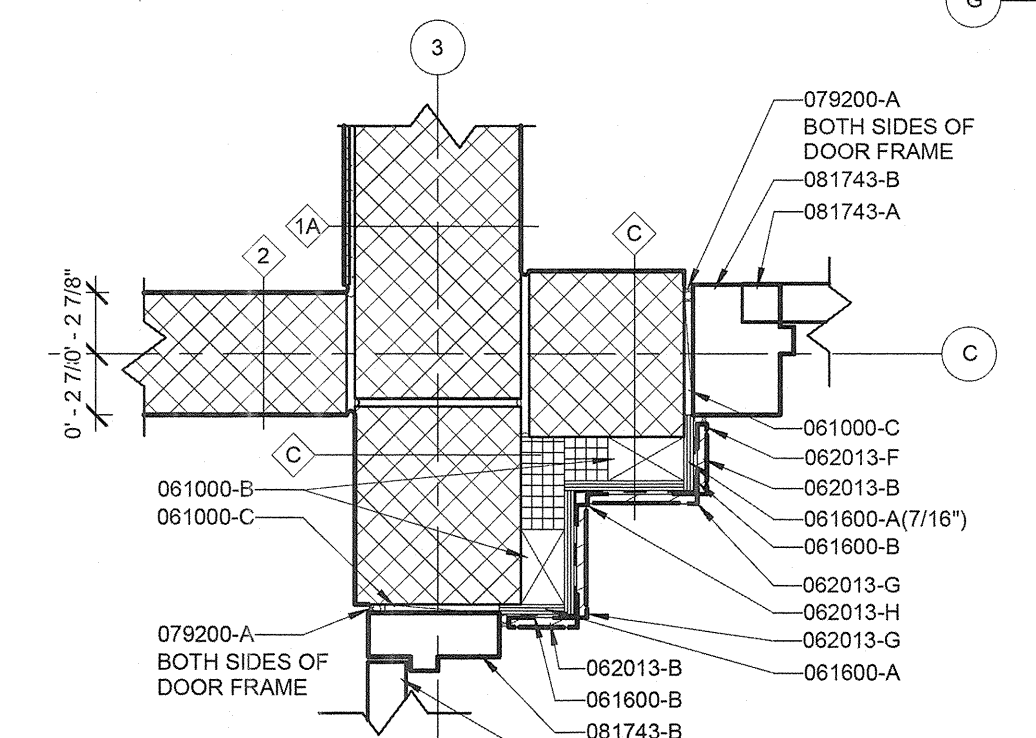
2 PLAN DETAIL  
A4.1 1 1/2" = 1'-0"



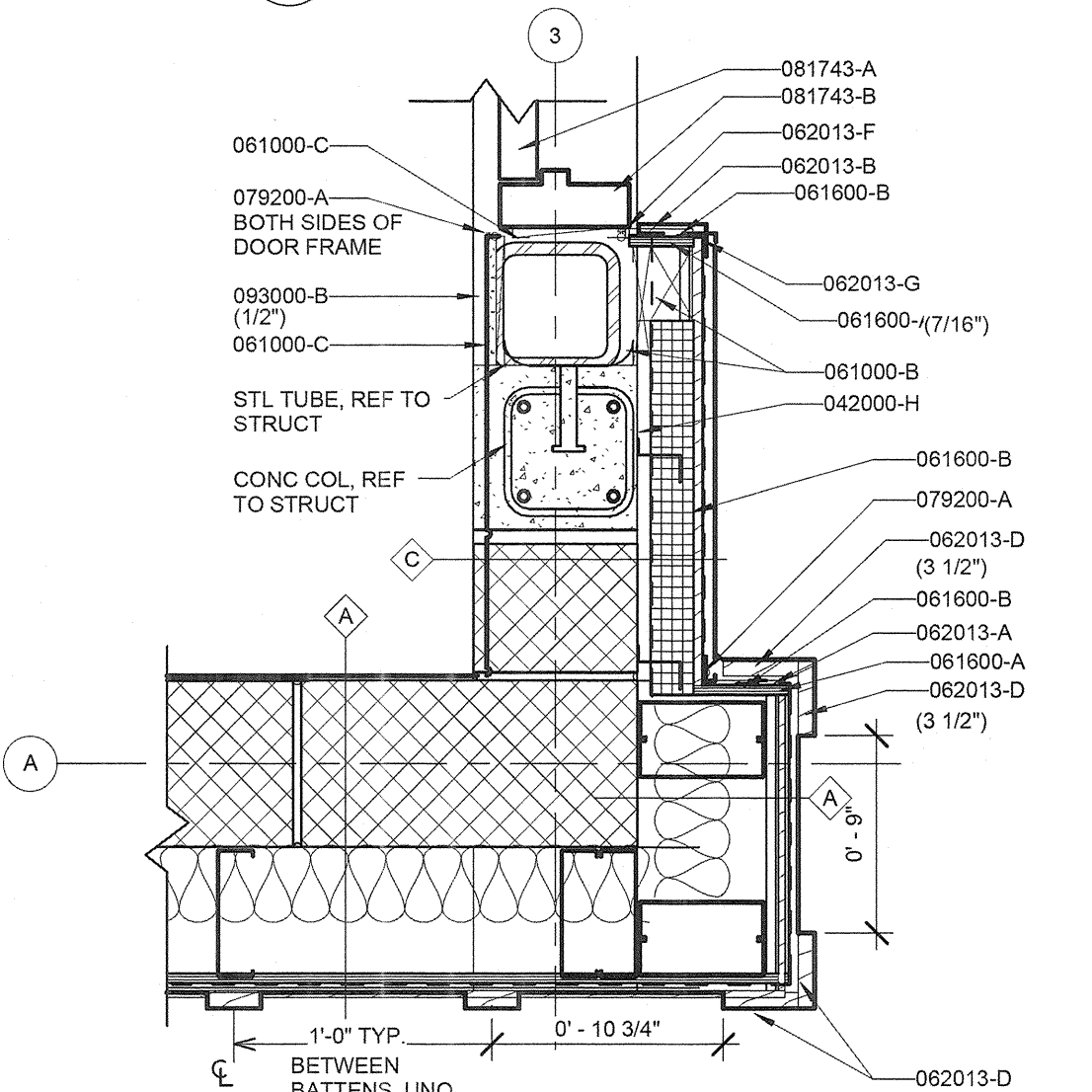
6 PLAN DETAIL (HIGH)  
A4.1 1 1/2" = 1'-0"



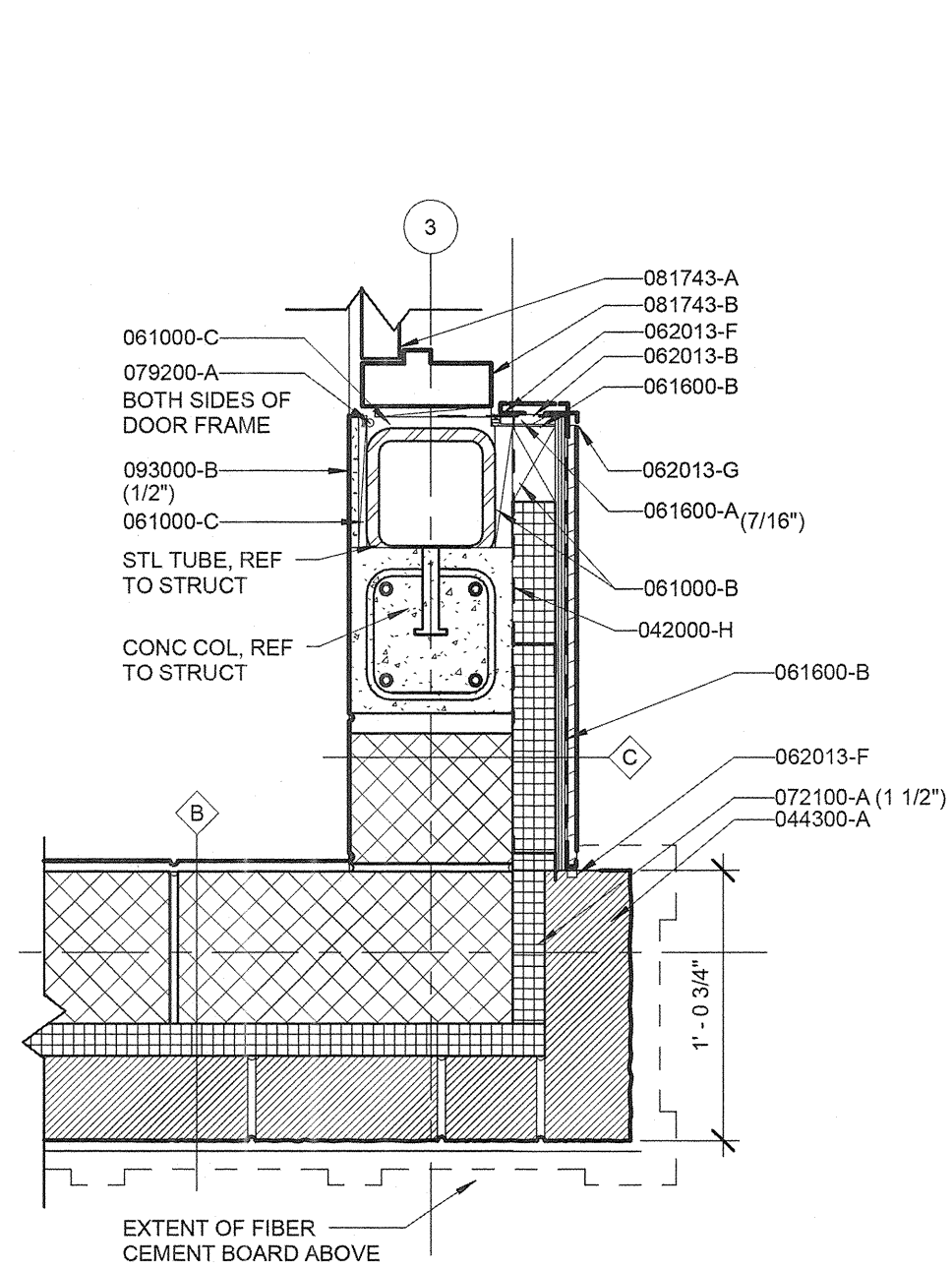
11 PLAN DETAIL (LOW)  
A4.1 1 1/2" = 1'-0"



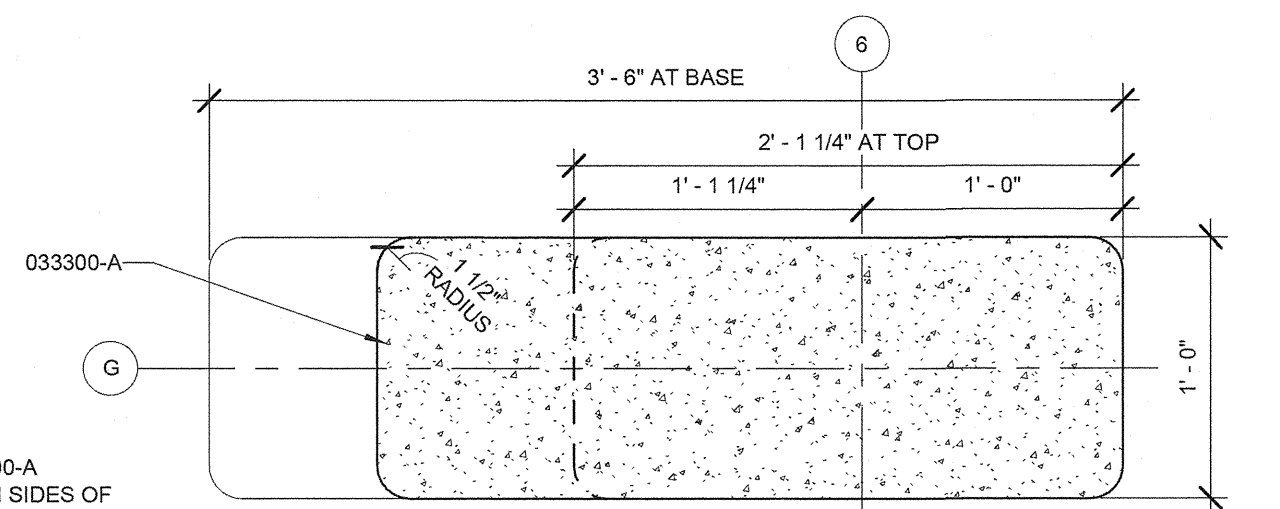
3 PLAN DETAIL  
A4.1 1 1/2" = 1'-0"



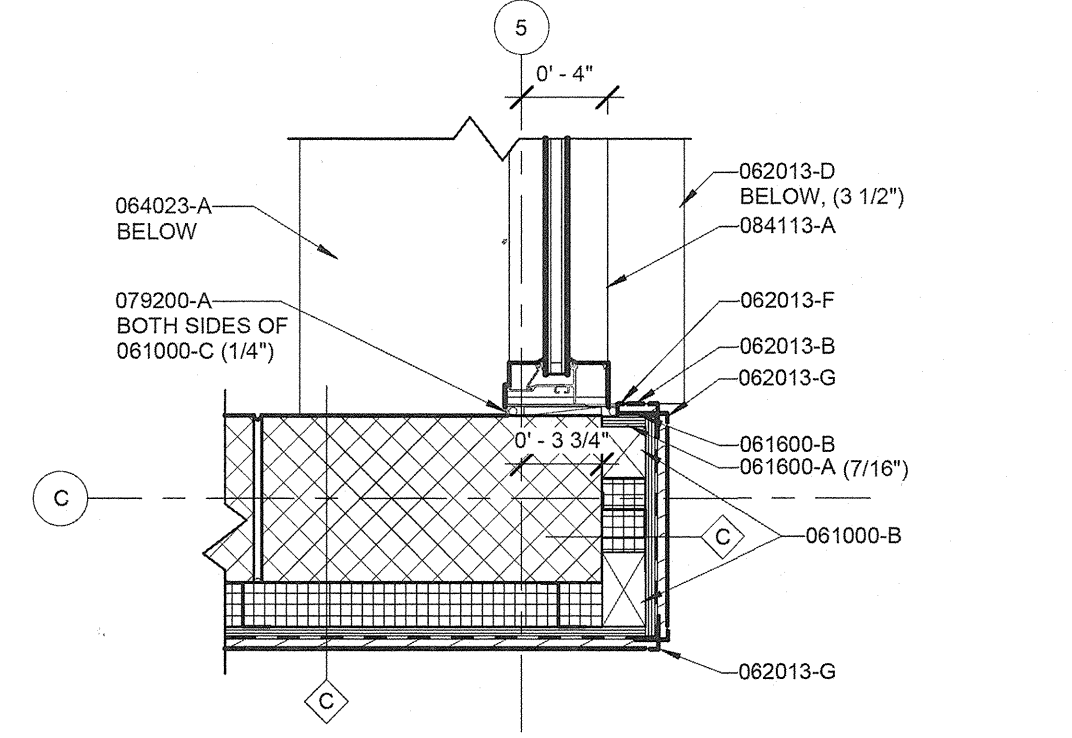
7 PLAN DETAIL (HIGH)  
A4.1 1 1/2" = 1'-0"



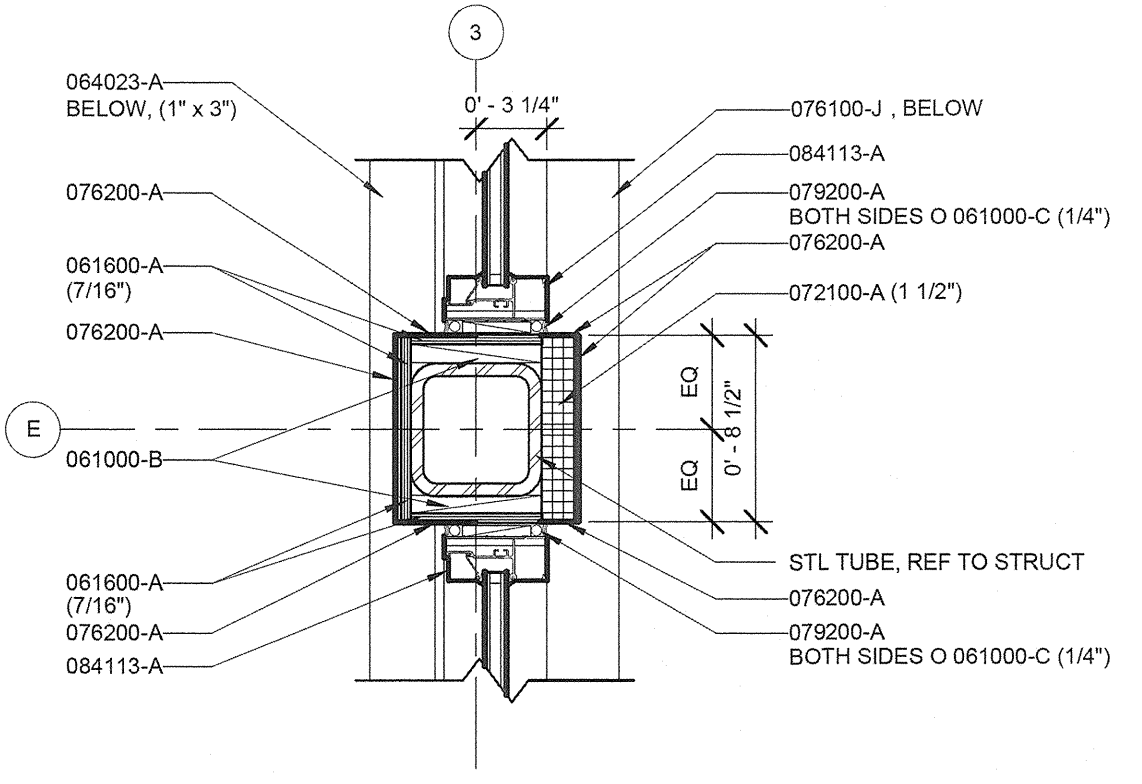
12 PLAN DETAIL (LOW)  
A4.1 1 1/2" = 1'-0"



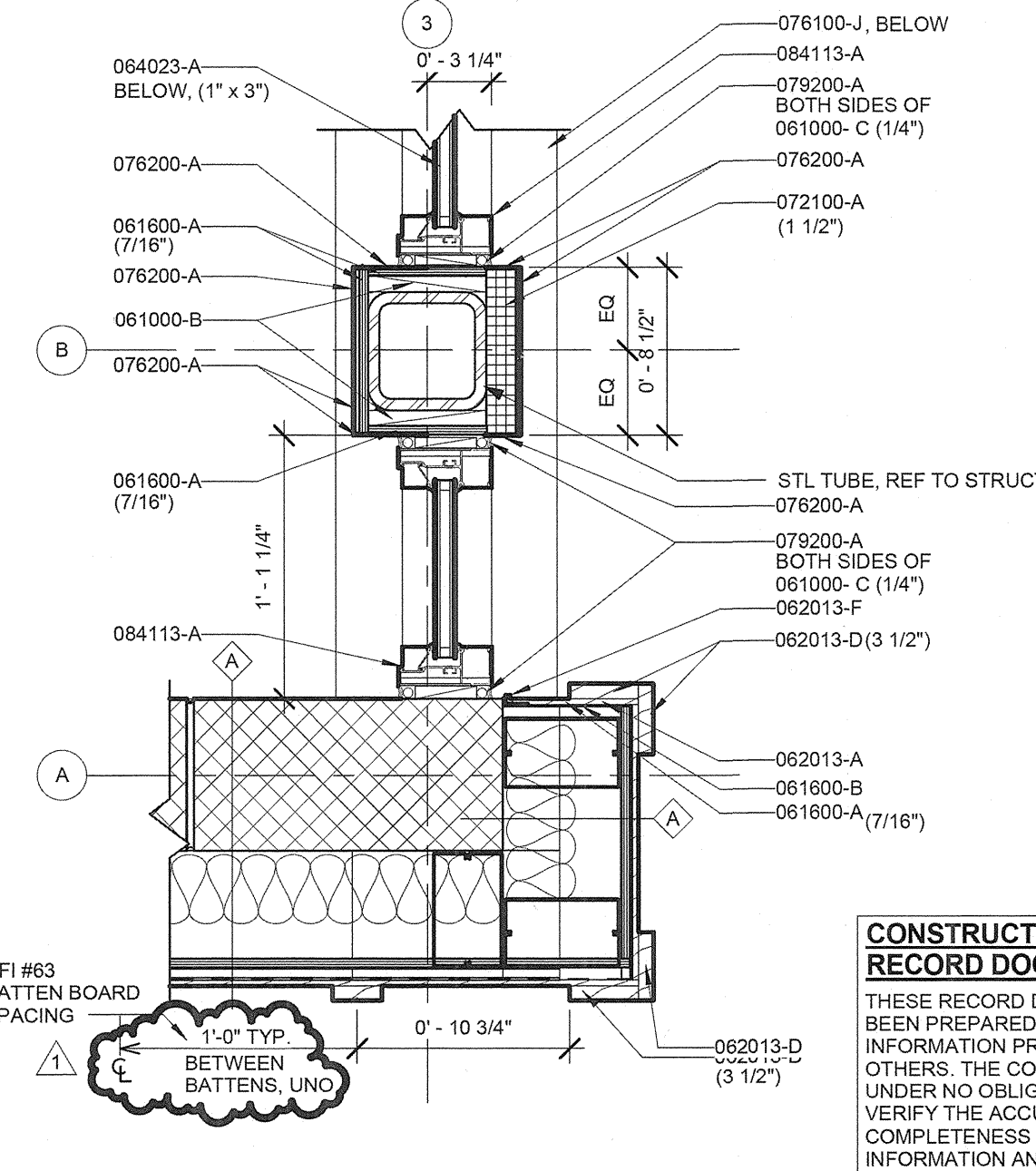
4 PLAN DETAIL - TAPER. CONC. COLUMN  
A4.1 1 1/2" = 1'-0"



8 PLAN DETAIL AT LOW CLERESTORY  
A4.1 1 1/2" = 1'-0"



9 PLAN DETAIL AT HIGH CLERESTORY  
A4.1 1 1/2" = 1'-0"



13 PLAN DETAIL AT HIGH CLERESTORY  
A4.1 1 1/2" = 1'-0"

KEYNOTES LISTED ON THIS SHEET ARE FOR CONVENIENCE ONLY. REFER TO SHEET A1.0 FOR COMPLETE LIST.

KEYNOTE	DESCRIPTION
033300-A	CONCRETE COLUMN; ARCHITECTURAL CONCRETE, REFER TO STRUCTURAL
042000-B	HORIZONTAL JOINT REINFORCING
042000-H	NO. 15 ASPHALT FELT
044300-A	STONE VENEER, NOMINAL WIDTH AS INDICATED
054000-A	2" Z" FURRING CHANNEL AT 18" O.C.
061000-B	WOOD BLOCKING
061000-C	WOOD SHIM
061600-A	EXTERIOR PLYWOOD WALL SHEATHING, THICKNESS AS INDICATED
061600-B	BUILDING WRAP
062013-A	CEMENT BOARD SIDING (5/16")
062013-B	CEMENT BOARD SIDING (7/16")
062013-C	CEMENT BOARD BATTEN
062013-D	3/4" THICK CEMENT BOARD TRIM; SIZE AS INDICATED
062013-E	EXTRUDED ALUMINUM VERTICAL REVEAL
062013-F	EXTRUDED ALUMINUM U CHANNEL
062013-G	EXTRUDED ALUMINUM OUTSIDE CORNER
062013-H	EXTRUDED ALUMINUM INSIDE CORNER
064023-A	WOOD SILL, SIZE AS INDICATED
071310-A	SHEET WALL FLASHING
072100-A	RIGID INSULATION; THICKNESS AS INDICATED
078100-J	METAL ROOF FLASHING
078200-A	BRAKE METAL
079200-A	JOINT SEALANT AND BACKER ROD
081743-A	FIBERGLASS REINFORCED POLYESTER DOORS
081743-B	ALUMINUM DOOR FRAME
084113-A	ALUMINUM STOREFRONT SYSTEM
089000-A	FIXED METAL WALL LOUVER
089000-B	METAL LOUVER SILL
089000-C	OPERABLE METAL WALL LOUVER
093000-A	CERAMIC WALL TILE
093000-B	CEMENTITIOUS BACKER BOARD, SIZE AS INDICATED

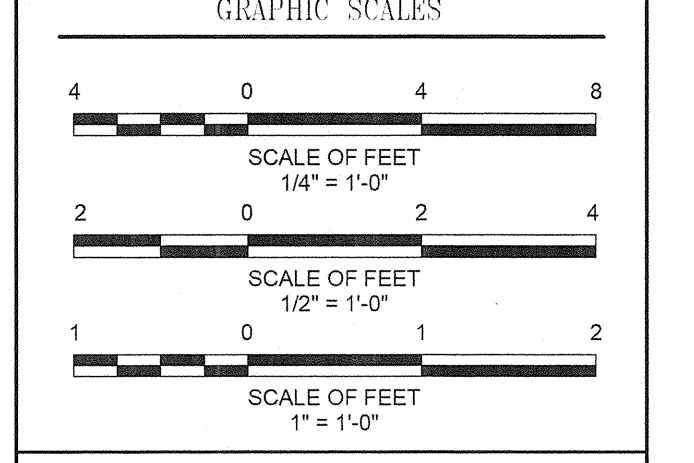
REVISIONS	
AS BUILT	01/13/14

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COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS  
9250 BENDIX ROAD  
ELLCOTT CITY, MD 21043

**WR&A**  
WHITMAN, REQUARDT & ASSOCIATES, LLP  
801 South Caroline Street, Baltimore, Maryland 21201  
Phone: 410-235-5450 Fax: 410-243-6716

PROPERTY  
TAX MAP 36, GRID 5, PARCEL 3.72  
ZONING: RC-BEO  
ELECTION DISTRICT 3/7



SIGNATURE

BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

COMFORT STATION DETAILS  
Drawing No. **A4.1**  
Scale: 1 1/2" = 1'-0"  
Date: 11/28/2011 Sheet 19 of 55  
Des: Drawn:MDP Check:LAA

CONSTRUCTION SET RECORD DOCUMENTS  
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ARCHITECTS  
800 WYMAN PARK DRIVE, SUITE 300  
BALTIMORE, MARYLAND 21211, 410-332-1009  
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1. ALL DAMP PROOFING SHALL BE APPLIED TO THE EXTERIOR SURFACE OF THE WALL AND TO THE TOP SURFACE OF THE SLAB AT THE FINISH GRADE OF THE EXTERIOR FINISH FLOOR.

2. THE DAMP PROOFING SHALL BE APPLIED TO THE EXTERIOR SURFACE OF THE WALL AND TO THE TOP SURFACE OF THE SLAB AT THE FINISH GRADE OF THE EXTERIOR FINISH FLOOR.

3. THE DAMP PROOFING SHALL BE APPLIED TO THE EXTERIOR SURFACE OF THE WALL AND TO THE TOP SURFACE OF THE SLAB AT THE FINISH GRADE OF THE EXTERIOR FINISH FLOOR.

4. THE DAMP PROOFING SHALL BE APPLIED TO THE EXTERIOR SURFACE OF THE WALL AND TO THE TOP SURFACE OF THE SLAB AT THE FINISH GRADE OF THE EXTERIOR FINISH FLOOR.

5. THE DAMP PROOFING SHALL BE APPLIED TO THE EXTERIOR SURFACE OF THE WALL AND TO THE TOP SURFACE OF THE SLAB AT THE FINISH GRADE OF THE EXTERIOR FINISH FLOOR.

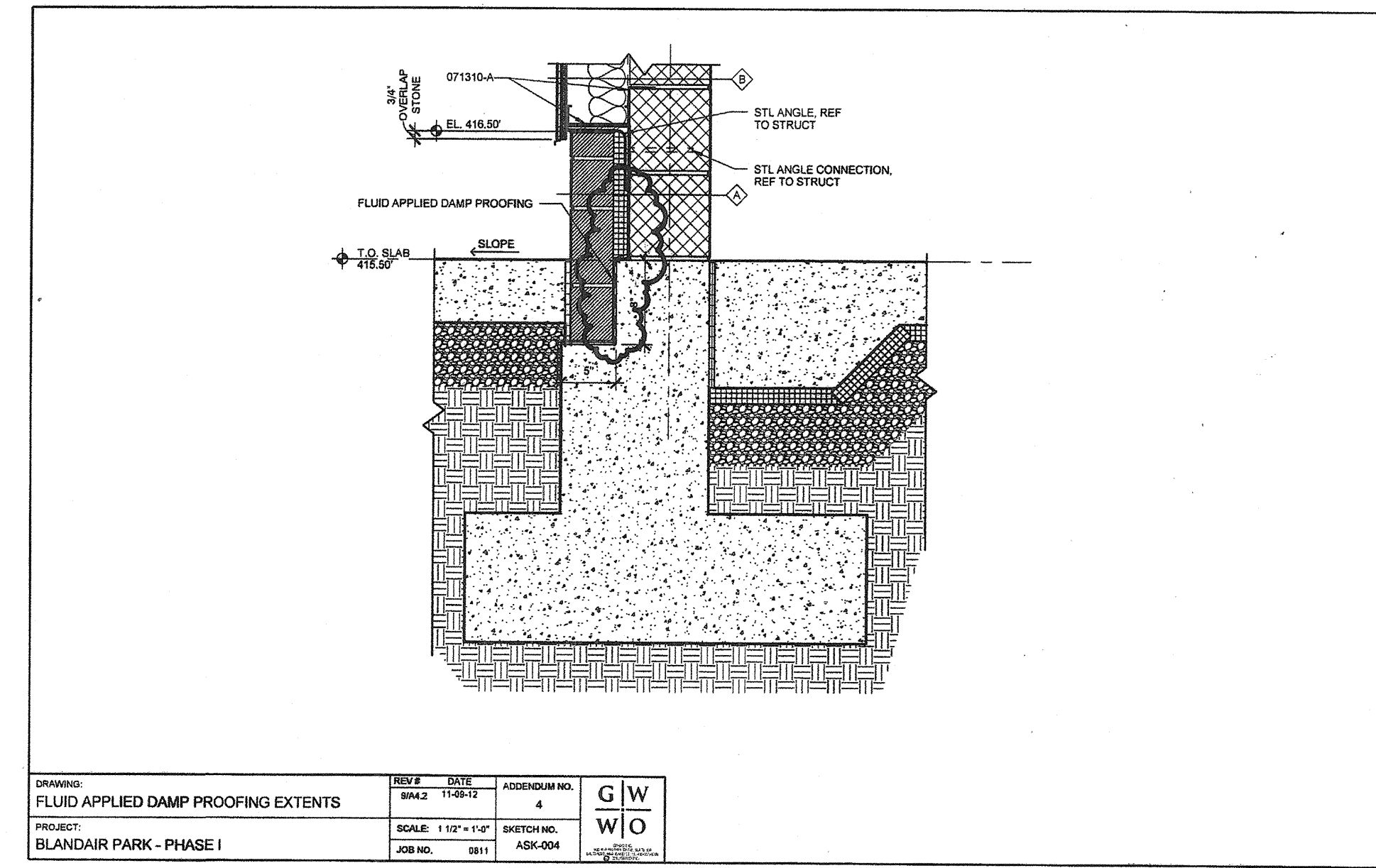
6. THE DAMP PROOFING SHALL BE APPLIED TO THE EXTERIOR SURFACE OF THE WALL AND TO THE TOP SURFACE OF THE SLAB AT THE FINISH GRADE OF THE EXTERIOR FINISH FLOOR.

7. THE DAMP PROOFING SHALL BE APPLIED TO THE EXTERIOR SURFACE OF THE WALL AND TO THE TOP SURFACE OF THE SLAB AT THE FINISH GRADE OF THE EXTERIOR FINISH FLOOR.

8. THE DAMP PROOFING SHALL BE APPLIED TO THE EXTERIOR SURFACE OF THE WALL AND TO THE TOP SURFACE OF THE SLAB AT THE FINISH GRADE OF THE EXTERIOR FINISH FLOOR.

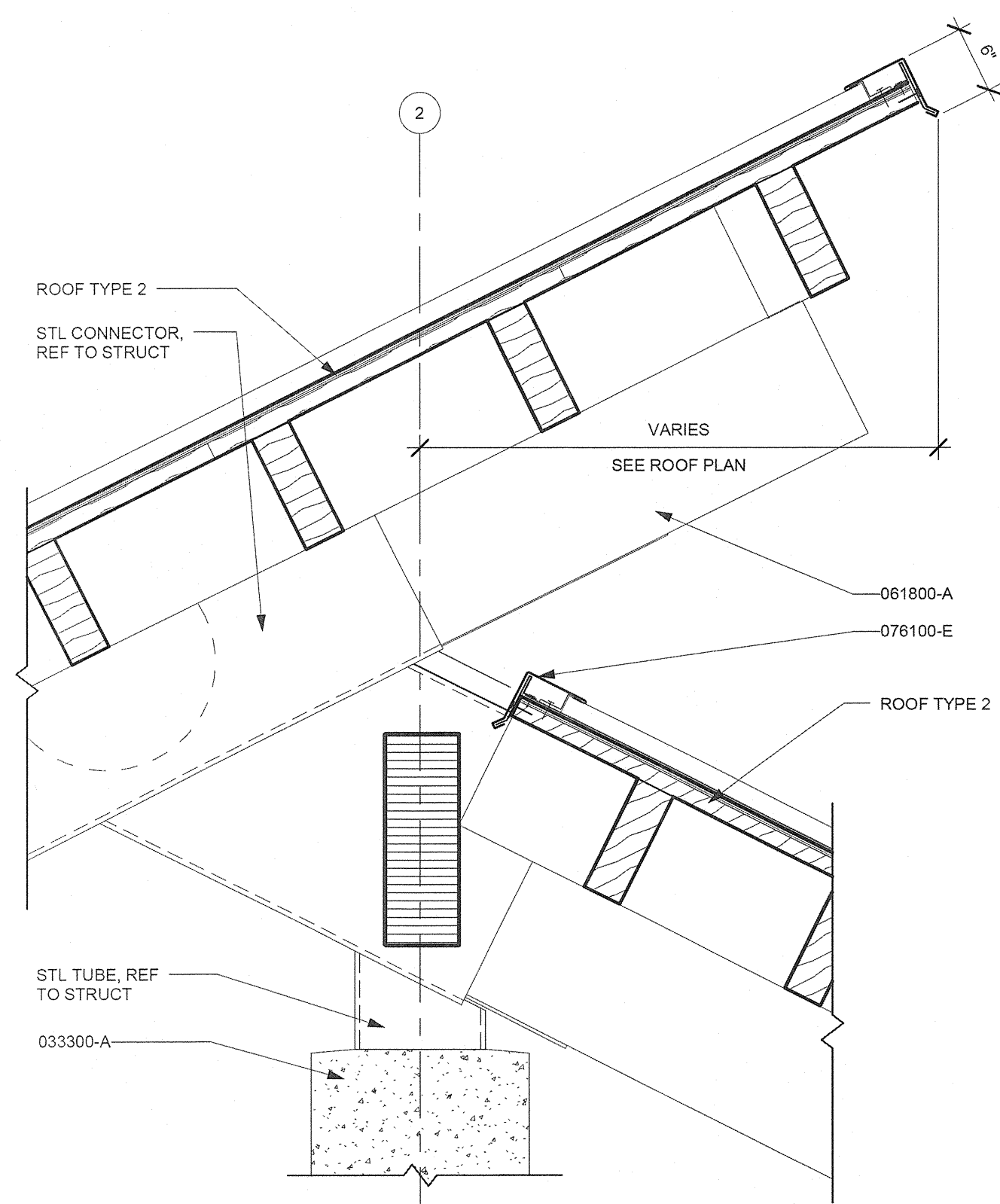
9. THE DAMP PROOFING SHALL BE APPLIED TO THE EXTERIOR SURFACE OF THE WALL AND TO THE TOP SURFACE OF THE SLAB AT THE FINISH GRADE OF THE EXTERIOR FINISH FLOOR.

10. THE DAMP PROOFING SHALL BE APPLIED TO THE EXTERIOR SURFACE OF THE WALL AND TO THE TOP SURFACE OF THE SLAB AT THE FINISH GRADE OF THE EXTERIOR FINISH FLOOR.

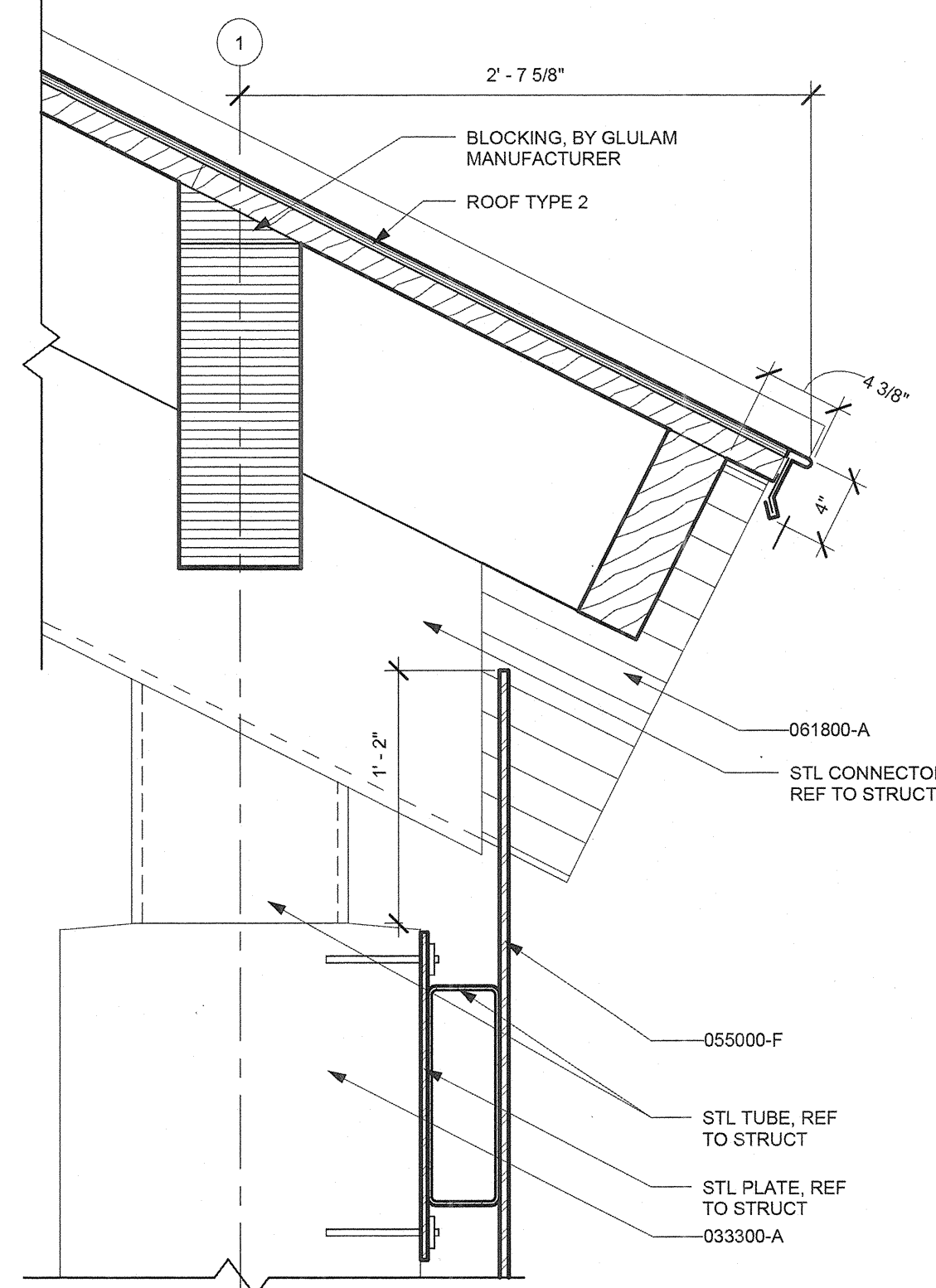




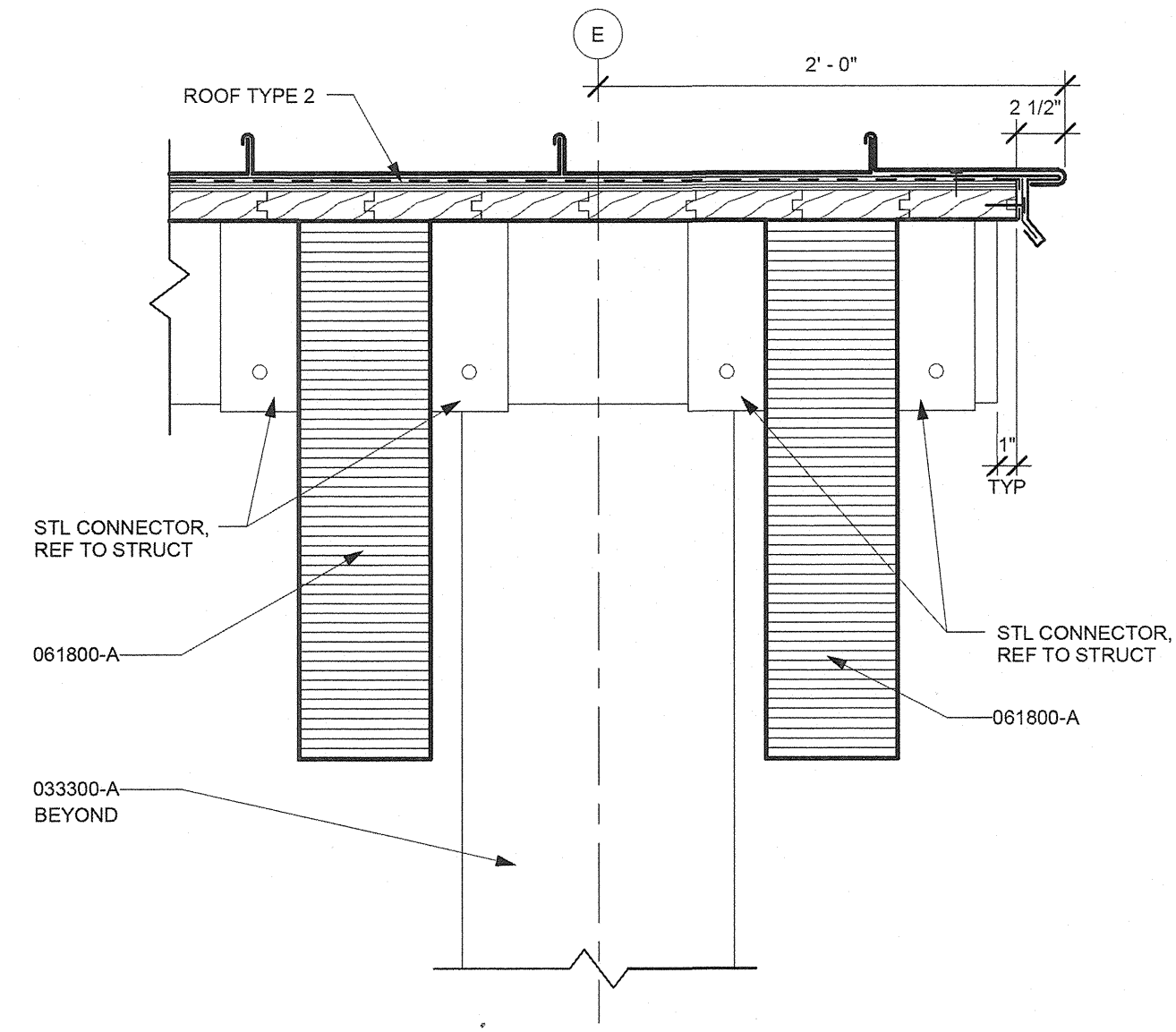
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8 SECTION DETAIL AT PEAK  
 A4.3 1" = 1'-0"



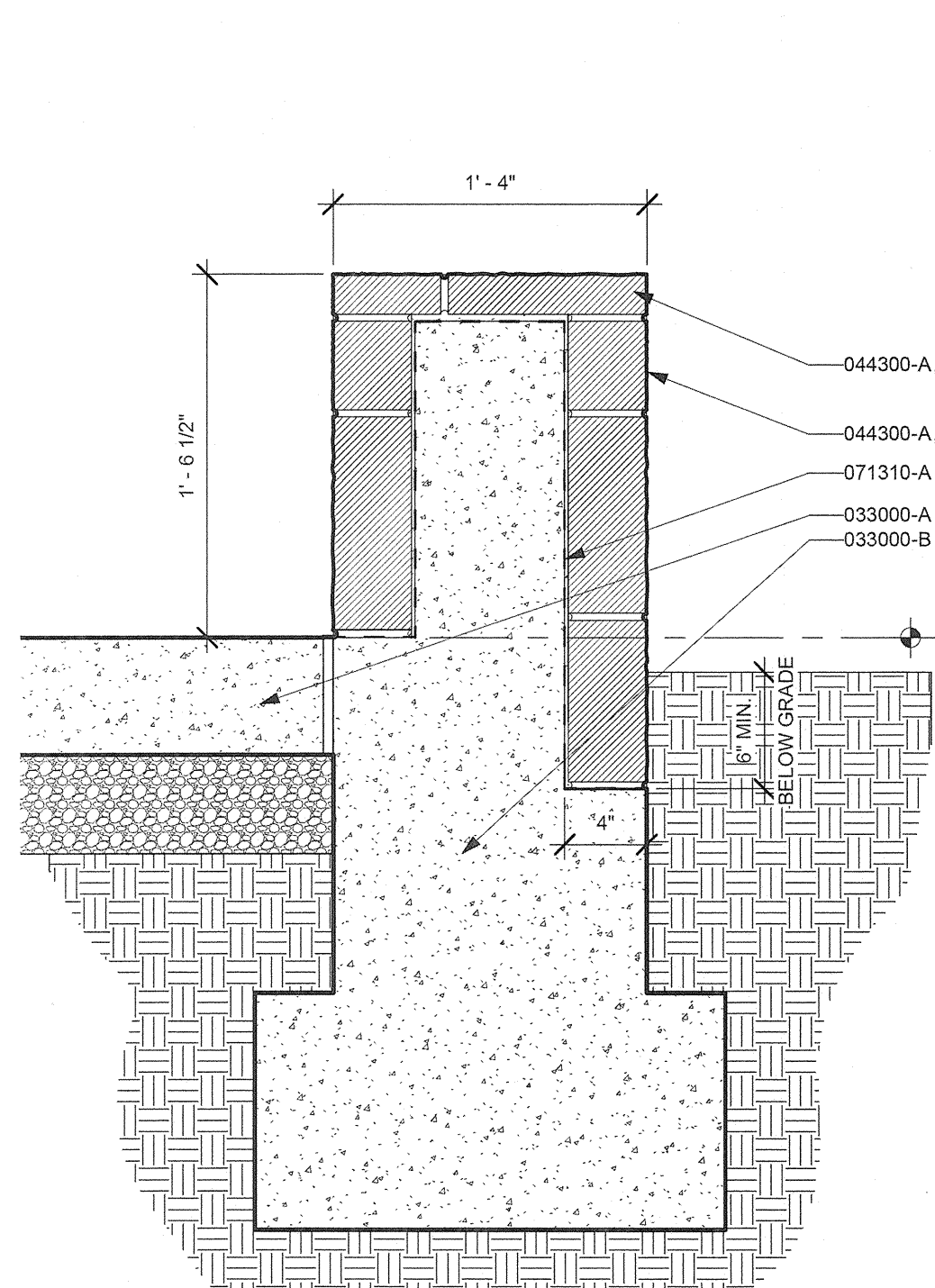
6 ROOF EDGE DETAIL  
 A4.3 1 1/2" = 1'-0"



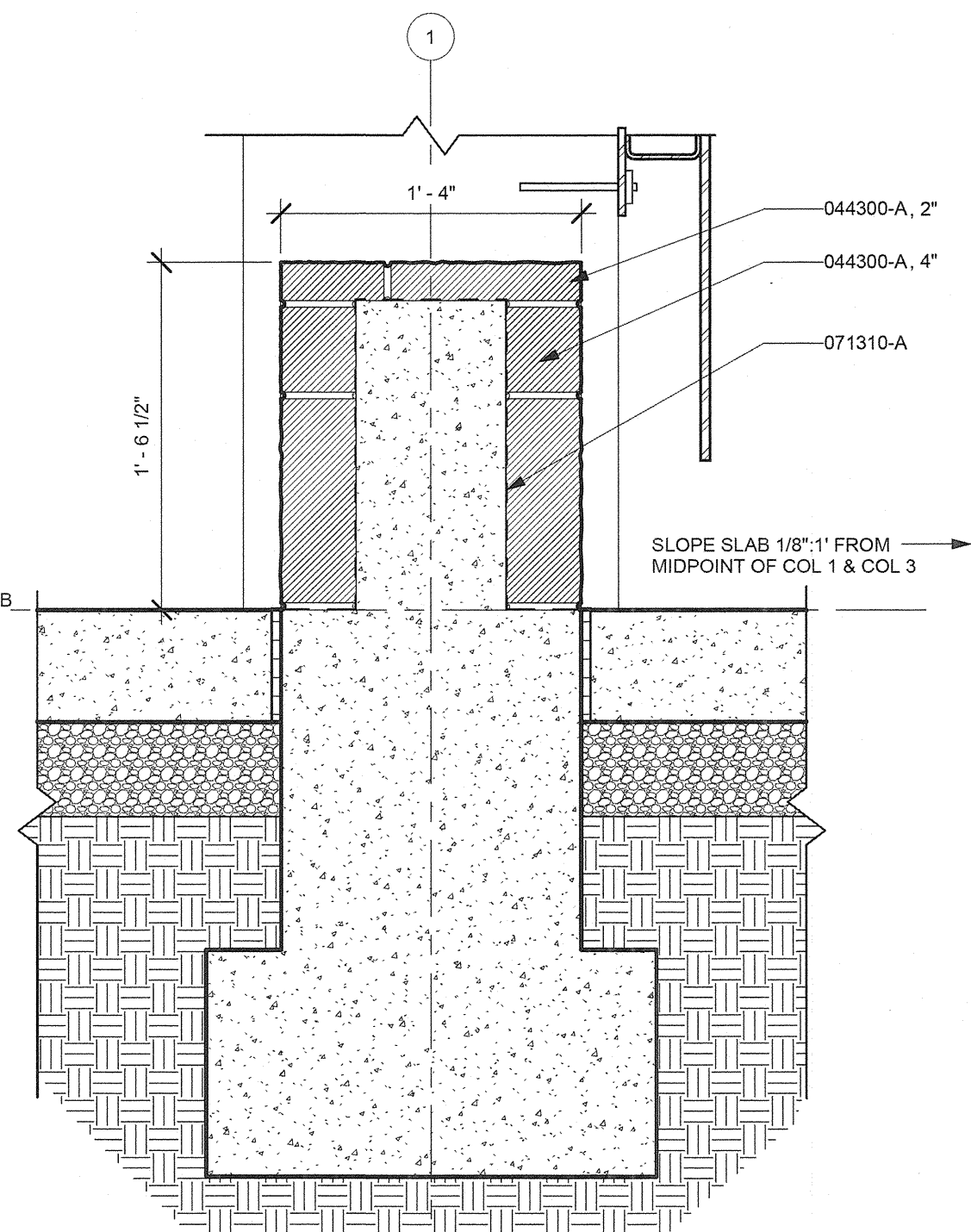
7 SECTION DETAIL AT ROOF  
 A4.3 1 1/2" = 1'-0"

KEYNOTES LISTED ON THIS SHEET ARE FOR CONVENIENCE ONLY. REFER TO SHEET A1.0 FOR COMPLETE LIST.

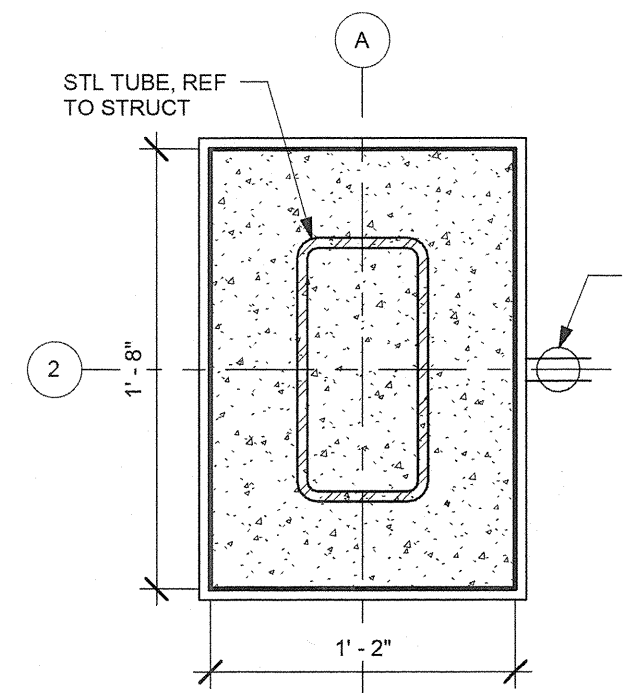
KEYNOTE	DESCRIPTION
033000-A	CONCRETE SLAB ON GRADE; REFER TO STRUCTURAL DOCUMENTS FOR FULL DESCRIPTION
033000-B	CONCRETE FOOTING; REFER TO STRUCTURAL DOCUMENTS FOR FULL DESCRIPTION
033300-A	CONCRETE COLUMN; ARCHITECTURAL CONCRETE, REFER TO STRUCTURAL
044300-A	STONE VENEER; NOMINAL WIDTH AS INDICATED
055000-F	STEEL PLATE VERTICAL SIDING, 1/2" THICK - SEE DRAWING 3/A3.2 FOR TYPICAL LAYOUT PATTERN
061800-D	NOT USED
061800-A	GLUE LAMINATED BEAM (REFER TO STRUCTURAL DOCUMENTS FOR FULL DESCRIPTION)
071310-A	SHEET WALL FLASHING
076100-E	METAL FASCIA WITH DRIP EDGE



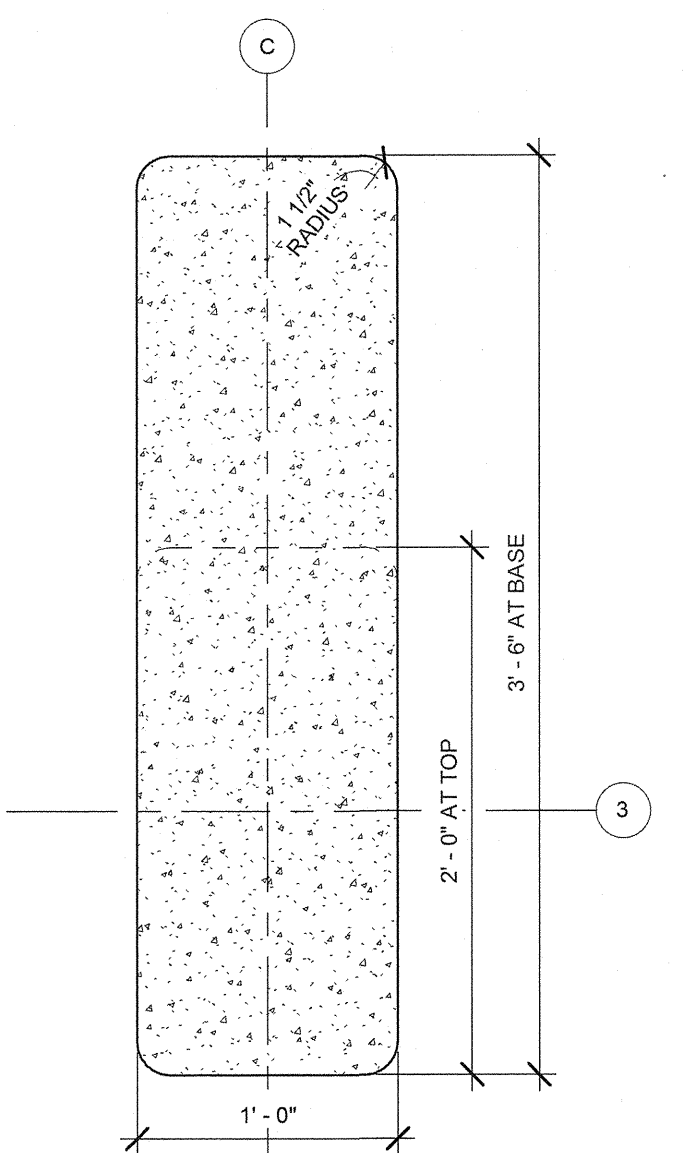
5 SECTION THRU SEAT WALL  
 A4.3 1 1/2" = 1'-0"



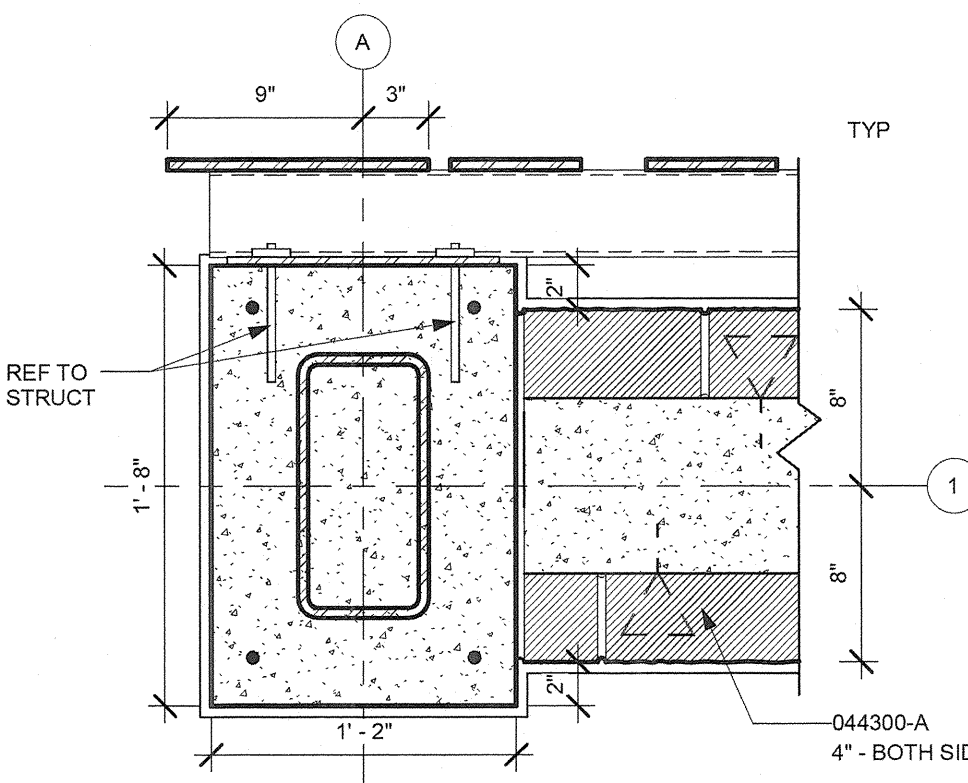
4 SECTION THRU SEAT WALL  
 A4.3 1 1/2" = 1'-0"



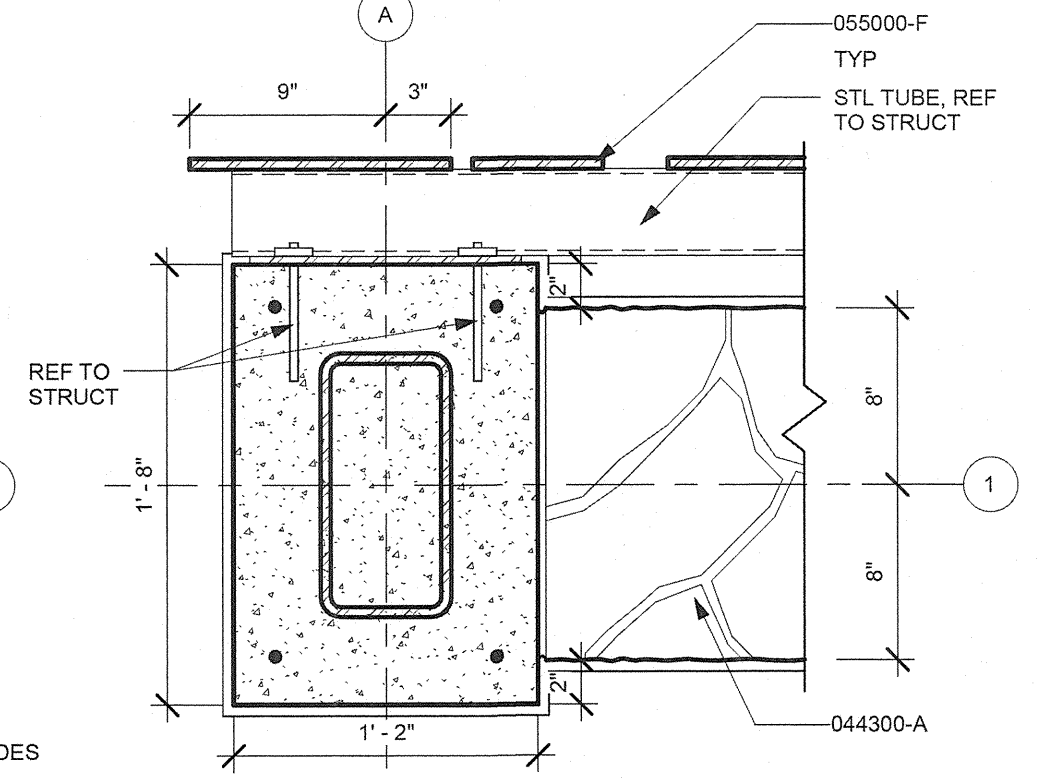
3 PLAN DETAIL  
 A4.3 1 1/2" = 1'-0"



10 PLAN DETAIL - TAPER. CONC. COL.  
 A4.3 1 1/2" = 1'-0"



2 PLAN DETAIL  
 A4.3 1 1/2" = 1'-0"



1 PLAN DETAIL (ABOVE SEAT WALL)  
 A4.3 1 1/2" = 1'-0"

**CONSTRUCTION SET RECORD DOCUMENTS**  
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT IS UNDER NO OBLIGATION OR DUTY TO VERIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND HAS NOT DONE SO. THE CONSULTANT SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

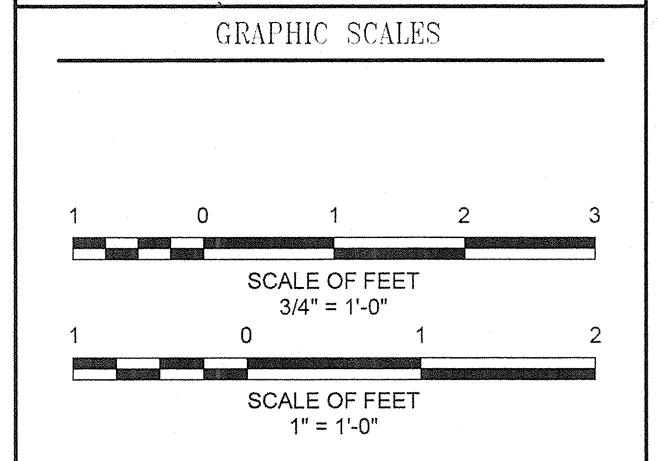


REVISIONS	

**HOWARD COUNTY**  
 DEPARTMENT OF RECREATION AND PARKS  
 7120 OAKLAND MILLS ROAD  
 COLUMBIA, MD 21046  
 DEPARTMENT OF PUBLIC WORKS  
 9250 BENDIX ROAD  
 ELLICOTT CITY, MD 21043

**WR&A**  
**WHITMAN, REQUARDT & ASSOCIATES, LLP**  
 801 South Caroline Street, Baltimore, Maryland 21231  
 Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY  
 TAX MAP 36, GRID 5, PARCEL 3.72  
 ZONING: RC-DEO  
 ELECTION DISTRICT 3/7



SIGNATURE

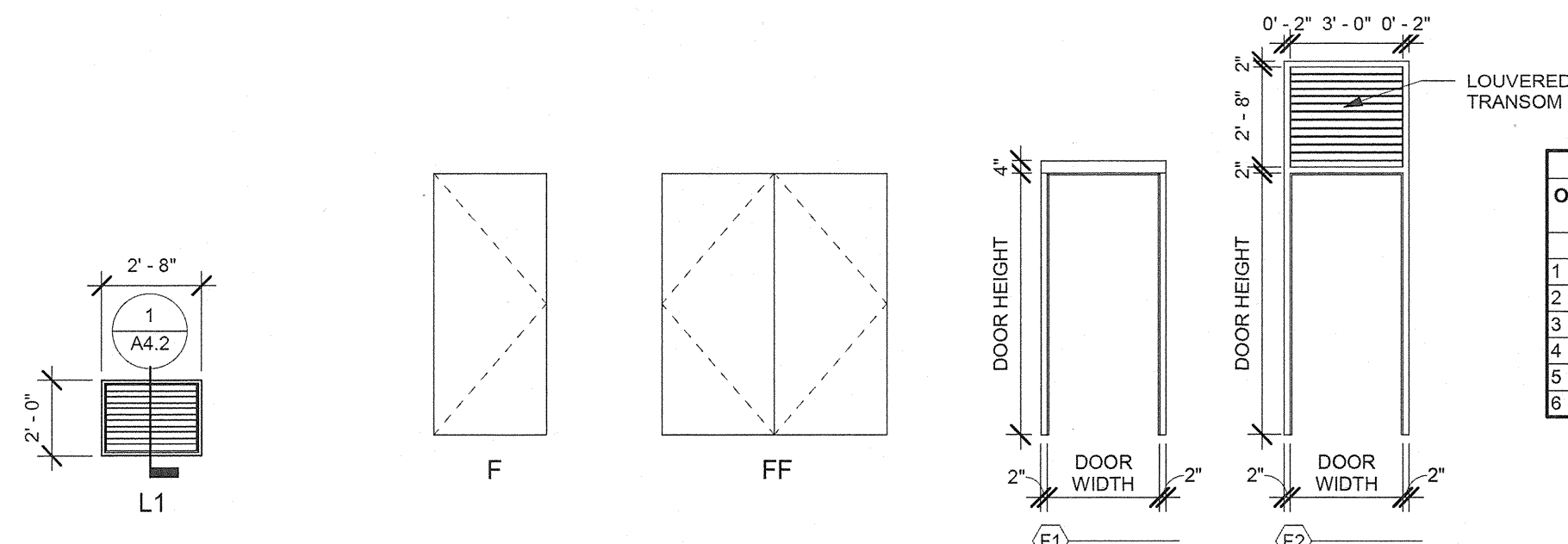
**BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT**

PICNIC SHELTER DETAILS  
 Drawing No. **A4.3**  
 Scale: As indicated  
 Date: 11/28/2011 Sheet 21 of 55  
 Des: Drawn:MDP Check:LAA









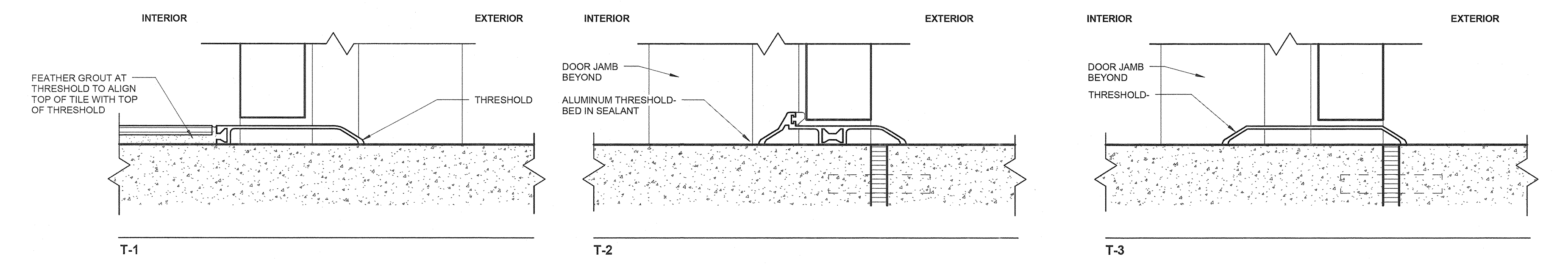
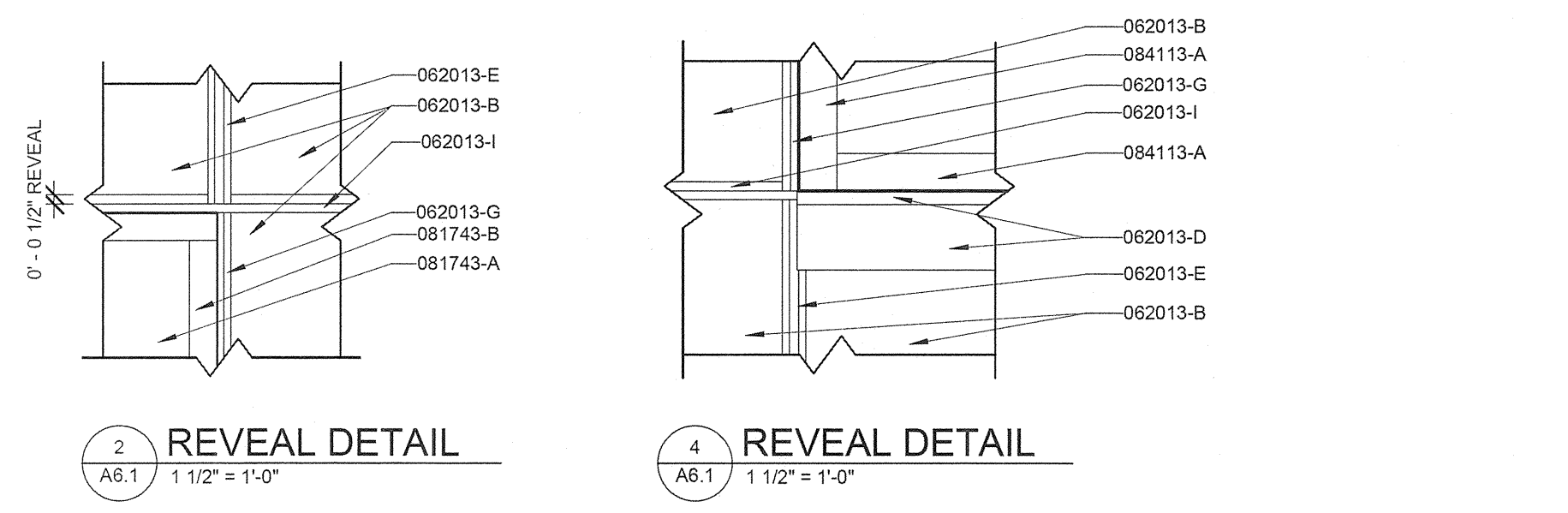
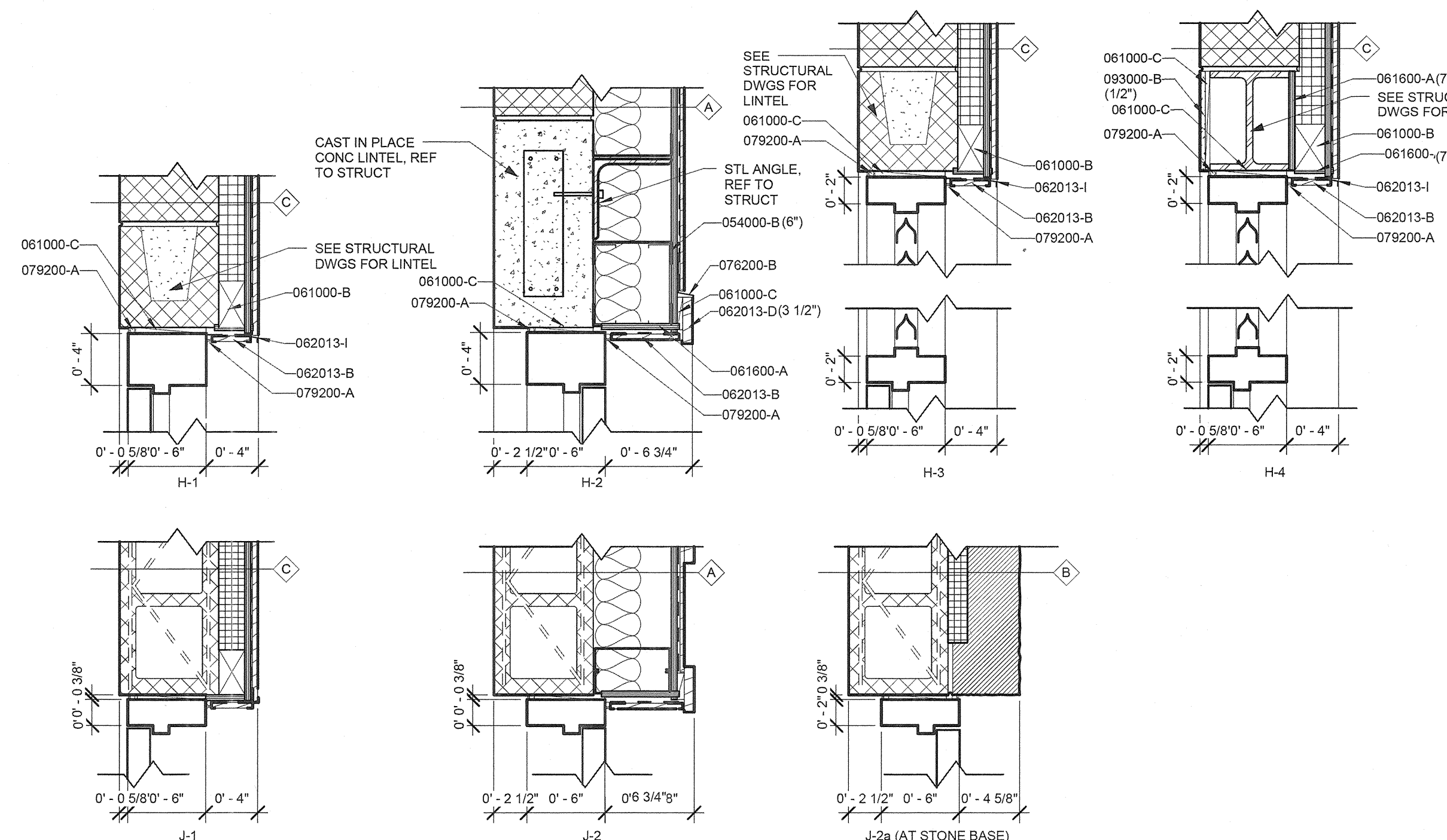
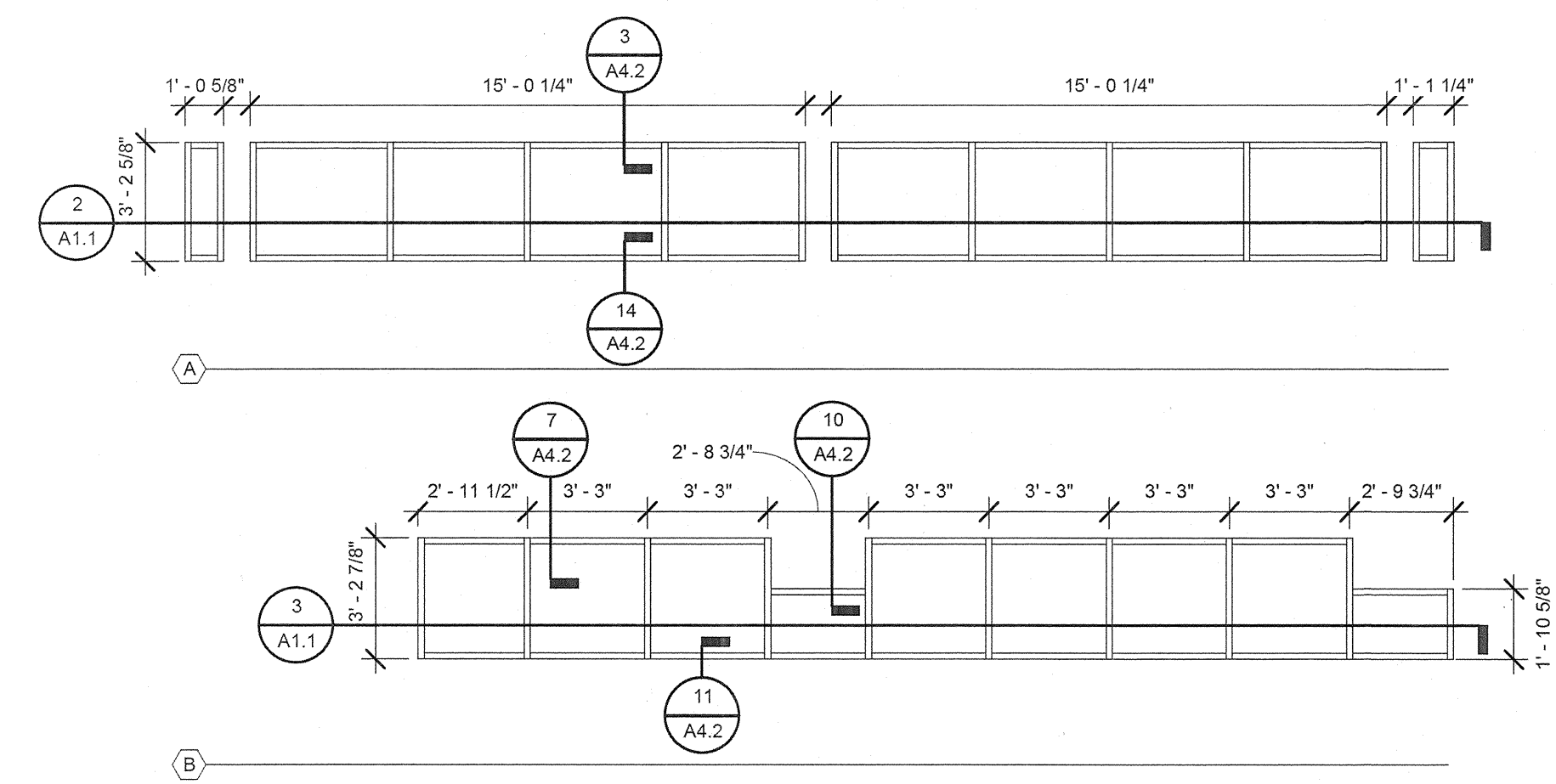
Opening No.	Door			Frame				Remarks			
	Type	Construction	Width	Height	Elevation	Construction	Head		Jamb	Hardware	Threshold
1	F	FRP	7'-0"	7'-0"	F1	HM	H-2	J-2/J-2A	H-1	T-2	
2	FF	FRP	3'-0"	7'-0"	F1	HM	H-2	J-2/J-2A	H-1	T-3	
3	FF	FRP	7'-0"	7'-0"	F1	HM	H-2	J-2/J-2A	H-1	T-3	
4	F	FRP	3'-0"	7'-0"	F2	HM	H-4	J-1	H-1	T-1	
5	F	FRP	3'-0"	7'-0"	F1	HM	H-1	J-1	H-1	T-2	
6	F	FRP	3'-0"	7'-0"	F2	HM	H-3	J-1	H-1	T-1	

Number	Space Description	Floor Finish	Base Finish	Wall Finish				Ceiling Finish	Remarks
				North	South	East	West		
1	ELEC	F1	B1	W2	W2	W2	W2	C2	
2	STORAGE	F1	B1	W2	W2	W2	W2	C2	
3	STORAGE	F1	B1	W2	W2	W2	W2	C2	
4	WOMEN	F2	B2	W1	W1	W1/W3	W1	C1	ALL WALLS WITHOUT TILE TO BE PAINTED
5	CHASE	F1	B1	W2	W2	W2	W2	C2	
6	MEN	F2	B2	W1	W1	W1	W1/W3	C1	ALL WALLS WITHOUT TILE TO BE PAINTED

FINISH KEY	
FLOOR FINISH	
F1	SEALED CONCRETE
F2	CERAMIC TILE
BASE FINISH	
B1	NO BASE
B2	CERAMIC TILE
WALL FINISH	
W1	PAINTED CMU
W2	UNPAINTED CMU
W3	CERAMIC TILE WAINSCOTTING
CEILING FINISH	
C1	CLEAR FINISHED EXPOSED T&G WOOD DECKING
C2	UNFINISHED EXPOSED T&G WOOD DECKING

KEYNOTES LISTED ON THIS SHEET ARE FOR CONVENIENCE ONLY. REFER TO SHEET A1.0 FOR COMPLETE LIST.

KEYNOTE	DESCRIPTION
054000-B	NON-LOAD BEARING STEEL STUDS AT 16" O.C. SIZE AS INDICATED
061000-B	WOOD BLOCKING
061000-C	WOOD SHIM
061600-A	EXTERIOR PLYWOOD WALL SHEATHING, THICKNESS AS INDICATED
062013-B	CEMENT BOARD SIDING (7/16")
062013-D	3/4" THICK CEMENT BOARD TRIM, SIZE AS INDICATED
062013-E	EXTRUDED ALUMINUM VERTICAL REVEAL
062013-G	EXTRUDED ALUMINUM OUTSIDE CORNER
062013-I	EXTRUDED ALUMINUM "Z" FLASHING
078200-B	SHEET METAL FLASHING
079200-A	JOINT SEALANT AND BACKER ROD
081743-A	FIBERGLASS REINFORCED POLYESTER DOORS
081743-B	ALUMINUM DOOR FRAME
084113-A	ALUMINUM STOREFRONT SYSTEM
093000-B	CEMENTITIOUS BACKER BOARD, SIZE AS INDICATED



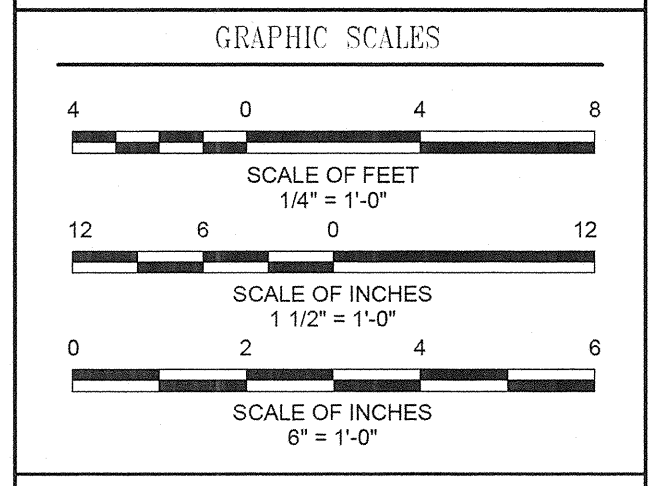
REVISIONS	

HOWARD COUNTY  
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PROPERTY  
TAX MAP 36, GRID 5, PARCEL 3.72  
ZONING: RC-DEO  
ELECTION DISTRICT 3/7



SIGNATURE

BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

COMFORT STATION SCHEDULES, DOOR & WINDOW DETAILS  
Drawing No. **A6.1**  
Scale: As indicated  
Date: 11/28/2011 Sheet 23 of 55  
Des: Drawn:MDP Check:MTB

CONSTRUCTION SET RECORD DOCUMENTS  
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT IS UNDER NO OBLIGATION OR DUTY TO VERIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND HAS NOT DONE SO. THE CONSULTANT SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

GREVES WORRALL WRIGHT & O'HANIK INCORPORATED  
**G|W**  
**W|O**  
ARCHITECTS  
800 WYMAN PARK DRIVE, SUITE 200  
BALTIMORE, MARYLAND 21271, 410-332-1009  
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**RFI Transmittal**

RFI ID: RFI-034  
Transmittal ID: 00171  
Date Sent: 7/31/2012

**Project:** Blandis Park-Phase I  
**Number:** 0811.1

**To:** Marlon Davis  
Ikhana  
3660 Bessemer Road  
Mount Pleasant, SC 29466  
United States  
843-566-7800 (Phone)  
843-566-7841 (Fax)

**From:** Brian Dunn  
GWWO, Inc./Architects  
809 Wyman Park  
Suite 300  
Baltimore, MD 21211  
US  
(410) 332-1009 x1121 (Phone)  
(410) 332-0038 (Fax)

**Subject:** Cove Base Clarification  
**Via:** Email  
**Purpose:** Answered  
**Question:** See attached RFI-034 by Ikhana

**Suggestion:**  
**Answer:** In order to achieve the tile pattern shown on drawings 3 & 4 on A7.1 the cove base needs to be the same size module as the wall tile, 3" x 3". Cut the 3" x 12" tile to 3" x 3" size as shown on the drawings.

**CC:** Mark Kovach(Howard County Department of Public Works)  
Bill Roesler(Howard County Department of Public Works)  
Chris Ho(Whitman, Reardon & Associates, LLP)

**Description of Contents**

Quantity	Title	Number	Date	Scale	Size
1	Cove Base Clarification	RFI-034	-		



**STRUCTURAL NOTES:**

**GENERAL NOTES:**

- FIELD VERIFY ALL DIMENSIONS, LOCATIONS AND ELEVATIONS SHOWN ON CONTRACT DRAWINGS FOR EXISTING STRUCTURES. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- THE SIZES AND LOCATIONS OF EQUIPMENT PADS AND PEDESTALS, AS WELL AS EQUIPMENT-RELATED FLOOR AND WALL OPENINGS, ARE DEPENDENT ON THE ACTUAL EQUIPMENT FURNISHED. VERIFY AND COORDINATE ALL SUCH ITEMS. DIMENSIONS INDICATED ON THESE DRAWINGS SHALL NOT BE ALTERED WITHOUT APPROVAL OF THE ENGINEER. STRUCTURAL DRAWINGS MAY NOT SHOW ALL EQUIPMENT PADS AND OTHER EQUIPMENT SUPPORTS REQUIRED. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL ACTIVITIES, INCLUDING THOSE OF SUBCONTRACTORS, WITH THE COUNTY'S ACTIVITIES.
- FOR NOTES PERTAINING TO INDIVIDUAL STRUCTURES, SEE DRAWINGS FOR THOSE STRUCTURES.
- THE LOCATION OF BORINGS ARE SHOWN ON THE CIVIL DRAWING C1.1.

**FOUNDATION NOTES:**

- DESIGN BEARING PRESSURE SHALL BE 3000 PSF.
- KEEP ALL EXCAVATIONS DRY. STANDING WATER WILL NOT BE ALLOWED IN EXCAVATIONS. PLACE A LAYER OF 10 MIL VAPOR BARRIER AND A 6" LAYER OF CRUSHED STONE UNDER ALL INTERIOR SLABS ON GRADE. ALL EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE ENGINEER AND COUNTY INSPECTIONS BEFORE PLACING ANY CONCRETE OR CRUSHED STONE.
- FOR MECHANICAL AND ELECTRICAL WORK TO BE INCORPORATED IN FOUNDATION WORK, SEE MECHANICAL AND ELECTRICAL DRAWINGS.
- DO NOT PLACE BACKFILL AGAINST SUBSTRUCTURE WALLS UNTIL UPPER BRACING FLOORS ARE IN PLACE FOR A MINIMUM OF SEVEN DAYS.

**CONCRETE NOTES:**

- PROVIDE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS, FOR STRUCTURAL COMPONENTS, AND CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS, FOR SIDEWALKS, CURBS, FENCE POSTS, ETC.
- DETAIL AND CONSTRUCT REINFORCED CONCRETE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE."
- DETAIL REINFORCING STEEL IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE ACI 315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," AND ACI SP-66, "ACI DETAILING MANUAL."
- PROVIDE REINFORCEMENT CONFORMING TO ASTM A 615, GRADE 60, DEFORMED BARS.
- UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE CONCRETE COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:
  - BOTTOM BARS IN FOOTINGS AND IN SLABS ON EARTH OR GRAVEL: 3".
  - BEAMS, SLABS, COLUMNS AND WALLS EXPOSED TO GROUND, WEATHER, PROCESS LIQUID OR VAPORS AFTER REMOVAL OF FORMS: 2".
  - BEAMS, COLUMNS, WALLS AND PIERS NOT EXPOSED TO WEATHER OR PROCESS LIQUID OR VAPORS: 1-1/2".
- SUBMIT REINFORCING STEEL DETAILS (SHOP DRAWINGS) AND RECEIVE APPROVAL BEFORE PROCEEDING WITH FABRICATION.
- CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.
- DETAIL ALL SPLICES FOR REINFORCING BARS NOT DIMENSIONED ON THE DRAWINGS AS TABULATED ON THIS DRAWING.
- POUR CONCRETE SLABS AND WALLS BETWEEN INDICATED JOINTS, ALLOWING A MINIMUM ELAPSED PERIOD OF 3 DAYS BETWEEN ADJACENT POURS.
- PROVIDE JOINTS AS DETAILED ON THE DRAWINGS. NO ADDITIONAL JOINTS SHALL BE USED NOR ANY OMITTED EXCEPT BY WRITTEN AUTHORIZATION FROM THE ENGINEER. APPROVED ADDITIONAL JOINTS SHALL NOT RESULT IN ADDITIONAL EXPENSE TO THE OWNER.
- WHERE A SLAB IS SLOPED (TOP AND/OR BOTTOM), PROVIDE SLOPED REINFORCING PARALLEL TO THE CONCRETE SURFACE.
- SIZE AND LOCATE ANCHOR BOLTS AND EQUIPMENT PADS OR PEDESTALS TO SUIT EQUIPMENT FURNISHED.
- REVIEW ALL DRAWINGS FROM OTHER DISCIPLINES AND COORDINATE ALL OPENINGS AND EMBEDDED ITEMS SUCH AS SLEEVES, ANCHORS, CONDUIT, ETC. THAT WILL BE INCORPORATED INTO CONCRETE WORK.
- PROVIDE BONDING COMPOUND AT ALL LOCATIONS IN WHICH FRESH CONCRETE COMES IN CONTACT WITH CURED CONCRETE.
- THE CONCRETE COLUMNS WITHIN THE 8-INCH CONCRETE MASONRY WALLS AT THE COMFORT STATION WILL REQUIRE THE POUR TO BE INSTALLED IN "LIFTS" TO PREVENT SEGREGATION OF THE AGGREGATES WITHIN THE WET CONCRETE.

**STRUCTURAL STEEL NOTES:**

- FABRICATE AND ERECT STRUCTURAL STEEL CONFORMING TO THE REQUIREMENTS OF AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), "MANUAL OF STEEL CONSTRUCTION".
- SUBMIT ERECTION PLANS AND SHOP DETAILS AND RECEIVE APPROVAL BEFORE PROCEEDING WITH FABRICATION.
- PROVIDE STRUCTURAL STEEL HSS MEMBERS CONFORMING TO ASTM A500, GRADE B. ALL OTHER MEMBERS SHALL CONFORM TO ASTM A36.
- PROVIDE HEAVY HEX HEAD ANCHORS CONFORMING TO ASTM F1554, GRADE 55 FOR COLUMN BASE PLATES ANCHORAGE. REFER TO THE SECTIONS AND DETAILS ON THE SHEETS FOR SIZE, AND EMBEDMENT DEPTHS.
- PROVIDE STAINLESS STEEL HEAVY HEX HEAD CAST-IN-PLACE STUDS, NUTS, AND WASHERS CONFORMING TO ASTM F593, TYPE 316 Fy=65 KSI FOR SIZES FROM 1/4 INCH TO 5/8 INCH DIAMETERS, AND Fy=45 KSI FOR STUDS FROM 3/4 INCH TO 1 1/2 INCH DIAMETERS.
- WELD IN COMPLIANCE WITH AMERICAN WELDING SOCIETY AWS D1.1, "STRUCTURAL WELDING CODE."
- MILL BOTTOM OF ALL COLUMNS AND FINISH TOP OF ALL BASE PLATES IN ACCORDANCE WITH AISC SPECIFICATIONS. WELD BASE PLATES TO BOTTOM OF COLUMNS.
- DO NOT SHOP PRIME STEEL SURFACES TO BE EMBEDDED IN CONCRETE OR MORTAR, OR JOINTS TO BE FIELD WELDED.

**CODES AND STANDARDS:**

- INTERNATIONAL BUILDING CODE IBC 2006 INCLUDING THE MODIFICATIONS MADE BY LOCAL JURISDICTION.
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "STEEL CONSTRUCTION MANUAL - THIRTEENTH EDITION- ALLOWABLE STRESS DESIGN OR LOAD AND RESISTANCE FACTOR DESIGN.
- AMERICAN CONCRETE INSTITUTE ACI-318, LATEST EDITION, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- AMERICAN CONCRETE INSTITUTE ACI-530/ ASCE 5/ TMS 402, LATEST EDITION "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES".
- AMERICAN SOCIETY OF CIVIL ENGINEERS ASCE 7, LATEST EDITION, "MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES."
- AMERICAN FOREST AND PAPER ASSOCIATION, LATEST EDITION, "NATIONAL DESIGN SPECIFICATION FOR WOOD."

**CONCRETE MASONRY NOTES:**

- CONSTRUCT MASONRY IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE ACI-530/ ASCE 5/ TMS 402 LATEST EDITION BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES".
- PROVIDE HOLLOW REGULAR WEIGHT LOAD-BEARING CONCRETE MASONRY UNITS MEETING THE REQUIREMENTS OF ASTM C 90.
- PROVIDE MORTAR CONFORMING TO THE REQUIREMENTS OF ASTM C-270, TYPE M OR S. CEMENT USED FOR MORTAR SHALL BE PORTLAND CEMENT.
- PROVIDE GROUT CONFORMING TO THE REQUIREMENTS OF ASTM C 476 COARSE GROUT, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS.
- PROVIDE CONCRETE MASONRY UNITS WITH A MINIMUM COMPRESSIVE STRENGTH (Fm) OF 1,500 PSI.
- PROVIDE REINFORCING BARS CONFORMING TO ASTM A 615, GRADE 60.
- IN ADDITION TO THE MASONRY WALL REINFORCEMENT SHOWN ON THE DRAWINGS, FURNISH THE FOLLOWING: #5 VERTICAL REINFORCEMENT SHALL BE PROVIDED AT CORNERS, WITHIN 16 INCHES OF EACH SIDE OF OPENINGS, WITHIN 8 INCHES OF EACH SIDE OF MOVEMENT JOINTS AND WITHIN 8 INCHES OF THE ENDS OF THE WALLS.
- SEE SPECIFICATIONS FOR HORIZONTAL REINFORCEMENT.

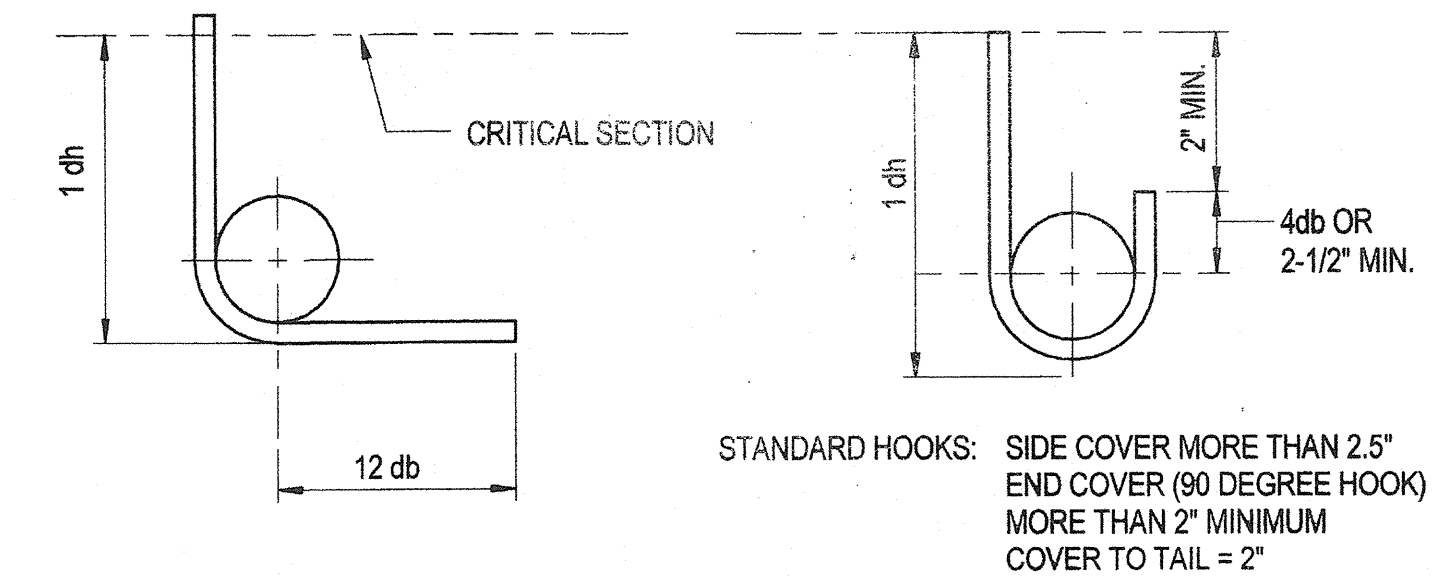
**WOOD NOTES:**

- GLULAM MEMBERS SHALL BE SPECIES SP/SP, WET CONDITIONS USE, AND ARCHITECTURAL APPEARANCE, WITH THE FOLLOWING MINIMUM DESIGN VALUE: Fbx=2400 PSI.
- MANUFACTURER QUALIFICATIONS INCLUDE CERTIFICATION BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC) OR THE AMERICAN PLYWOOD ASSOCIATION (APA).
- GLULAM MEMBERS SHALL COMPLY WITH AITC, A190.1, WITH EACH PIECE MARKED WITH AN AITC QUALITY MARK, OR AN APA-EWS TRADEMARK.
- SAWN TIMBER MEMBERS SHALL BE SOUTHERN PINE GRADE SELECT STRUCTURAL, VISUALLY GRADED, OR APPROVED EQUAL, WITH THE FOLLOWING DESIGN VALUE: Fb=1500 PSI.
- PROVIDE STAINLESS STEEL BOLTS, HEX HEAD NUTS, AND WASHERS FOR ALL BEAM AND GIRDER CONNECTIONS, CONFORMING TO:
  - ASTM F593, TYPE 316 FOR NUTS
  - ASTM F594, TYPE 316 FOR BOLTS, AND WASHERS.
- ALL STRUCTURAL WOOD MEMBERS (GLULAM, WOOD DECKING, WOOD BEAMS, AND WOOD JOISTS) SHALL BE TREATED WITH PRESERVATIVES.

**DESIGN LOADS:**

- DEAD LOADS:
  - STRUCTURES: ACTUAL WEIGHT
  - WEIGHT OF SOIL - 100 PCF FOR RESISTING UPLIFT
  - WEIGHT OF SOIL - 120 PCF FOR DEAD LOAD
  - MECHANICAL/ELECTRICAL/PLUMBING - 5 PSF (COMFORT STATION)
- LIVE LOADS:
  - SLAB ON GRADE: 150 PSF
  - ROOF - 30 PSF (NO REDUCTION)
  - SNOW LOAD - GROUND SNOW LOAD - (25) PSF
- WIND LOAD:
  - BASIC WIND SPEED: 90 MPH
  - EXPOSURE CATEGORY: C
  - WIND LOAD IMPORTANCE FACTOR (I): 1.00
  - BUILDING OCCUPANCY CATEGORY: II
- SEISMIC LOAD:
  - BUILDING OCCUPANCY CATEGORY: II
  - SITE CLASSIFICATION: D
  - SPECTRAL RESPONSE COEFFICIENT: SDS = 0.164; SD1 = 0.051
  - SEISMIC IMPORTANCE FACTOR (I): 1.0

BAR SIZE	LAP SPLICE LENGTH				MINIMUM TENSION EMBEDMENT			
	SLAB AND WALL		BEAM		STD 90 HOOK		STD 180 HOOK	
ENGLISH	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	ldh	12db	ldh	4db
#3	12"	16"	13"	18"	6"	5"	6"	2 1/2"
#4	15"	20"	22"	28"	7"	6"	7"	2 1/2"
#5	20"	24"	32"	41"	9"	8"	9"	3"
#6	22"	30"	40"	52"	10"	9"	10"	3"
#7	37"	48"	59"	76"	12"	11"	12"	4"
#8	48"	60"	68"	89"	14"	12"	14"	4"
#9	58"	74"	77"	101"	15"	14"	15"	5"
#10	70"	91"	89"	114"	17"	16"	17"	5"
#11	83"	108"	98"	128"	19"	17"	19"	6"



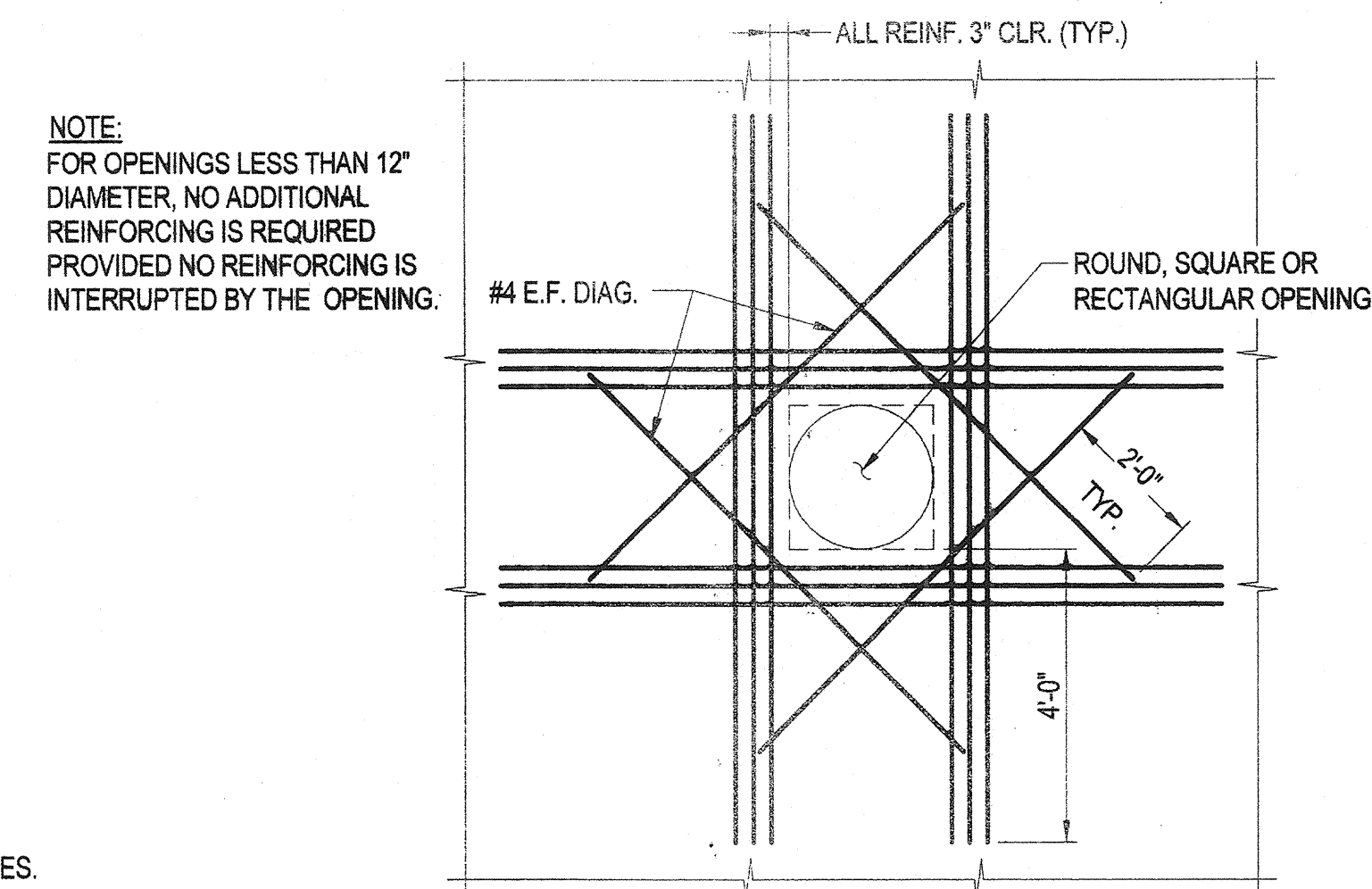
**ASSUMPTIONS:**

SLAB AND WALL: 6" MINIMUM REBAR SPACING WITH CONCRETE COVER = 1.5" CLEAR

BEAM: MINIMUM CLEAR SPACING BETWEEN BARS = 1.5db (BAR DIAMETER), MINIMUM CONCRETE COVER = 1.5" CLEAR. MINIMUM STIRRUP #4@12" PROVIDED.

TOP BAR: TOP BAR FOR SLAB AND BEAM SHALL BE DEFINED AS REINFORCEMENT SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST BELOW THE SPLICE

**TENSION LAP SPLICE AND STANDARD HOOK LENGTH**  
(NON-EPOXY COATED)



NOTE: FOR OPENINGS LESS THAN 12" DIAMETER, NO ADDITIONAL REINFORCING IS REQUIRED PROVIDED NO REINFORCING IS INTERRUPTED BY THE OPENING.

PROVIDE ADDITIONAL REINFORCING, (MINIMUM OF ONE-HALF THE NUMBER OF PRINCIPAL BARS INTERRUPTED BY THE OPENING) ON EACH SIDE AND EACH FACE OF THE OPENING.

**TYPICAL ADDITIONAL REINFORCING AROUND OPENINGS**  
NO SCALE

REVISIONS	
BID SET	11/29/11

**HOWARD COUNTY**

DEPARTMENT OF  
RECREATION AND PARKS  
7120 OAKLAND MILLS ROAD  
COLUMBIA, MD 21046

DEPARTMENT OF  
PUBLIC WORKS  
9250 BENDIX ROAD  
ELLCOTT CITY, MD 21043

**WR&A**

**WHITMAN, REQUARDT & ASSOCIATES, LLP**  
801 South Caroline Street, Baltimore, Maryland 21201  
Phone: 410-235-1350 Fax: 410-243-9316

**KEY PLAN**

**GRAPHIC SCALES**

**SIGNATURE**

PROFESSIONAL CERTIFICATION:  
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 9495  
EXPIRATION DATE: 09/27/2013

**BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT**

**GENERAL NOTES & TYPICAL DETAILS**

Drawing No.  
**S0.1**

Scale: NOT TO SCALE
Date: 11/28/2011 Sheet 25 of 55
Des: E.F. Drawn: A.A.B. Check: E.F.

**RFI Transmittal**

**RFI ID:** RFI-008  
**Transmittal ID:** 00067  
**Date Sent:** 6/12/2012

**Project Number:** Blandair Park-Phase I  
0811.1

**To:** Marion Davis  
Ikhana  
2120 Noisette Blvd.  
Suite 106A  
Charleston, SC 29405  
United States  
843-566-7800 (Phone)  
843-566-7841 (Fax)

**From:** Eric Feiss  
GWWO, Inc./Architects  
800 Wyman Park  
Suite 300  
Baltimore, MD 21211  
US  
(410) 332-1009 x1107 (Phone)  
(410) 332-0038 (Fax)

**Subject:** RFI-008: Column Mix Design

**Via:** Email

**Purpose:** Answered

**Question:** We request the use of an alternate "consolidating" small agg ready mix at the columns. While each building structure has its own unique column designs, it is evident that space is a concern when each column is formed, reinforced and prepared for concrete. In general, (1) there will not be sufficient room for a #57 stone to properly displace thru the mix, and (2) the contractor has reservation on the ability to consolidate and agitate the design mix per industry standards, at least to an adequate level to meet the expectation of the design intent.

**Suggestion:** To alleviate this concern on other projects, our past resolution was to offer a separate small aggregate mix with a superplast additive that will allow adequate flow and proper consolidation. Attached, we are offering a 4500psi mix from Schuster Concrete. This is a widely used small aggregate mix from the suppliers existing database. We have used this mix in past.

**Answer:** It is acceptable to substitute the concrete mix with the proposed ready mix concrete for the composite steel and concrete columns. The tapered column can use either concrete mix.

**CC:** Mark Kovach(Howard County Department of Public Works)  
Bill Roesler(Howard County Department of Public Works)

**RFI Transmittal**

**RFI ID:** RFI-009  
**Transmittal ID:** 00068  
**Date Sent:** 6/12/2012

**Project Number:** Blandair Park-Phase I  
0811.1

**To:** Marion Davis  
Ikhana  
2120 Noisette Blvd.  
Suite 106A  
Charleston, SC 29405  
United States  
843-566-7800 (Phone)  
843-566-7841 (Fax)

**From:** Eric Feiss  
GWWO, Inc./Architects  
800 Wyman Park  
Suite 300  
Baltimore, MD 21211  
US  
(410) 332-1009 x1107 (Phone)  
(410) 332-0038 (Fax)

**Subject:** RFI-009 Column lift pours in 8" CMU walls

**Via:** Email

**Purpose:** Answered

**Question:** Sheet S.01 Concrete Notes #15.0 states the concrete should be placed in lifts in the 8" CMU walls to allow for consolidation. If RFI 008 is approved and we are allowed use a small agg ready mix this will allow for proper consolidation around the steel reinforcement without the need to pour in lifts. Would it be acceptable to not pour columns monolithically in lieu of lifts if RFI 008 is accepted?

**Answer:** It is acceptable to pour the concrete columns within the 8" CMU walls monolithically using the ready mix concrete in RFI #8.

**CC:** Mark Kovach(Howard County Department of Public Works)  
Bill Roesler(Howard County Department of Public Works)  
Chris Ho(Whitman, Requardt & Associates, LLP)  
Wayne Chang(Whitman, Requardt & Associates, LLP)  
Howard Harris(Whitman, Requardt & Associates, LLP)

**Description of Contents**

Quantity	Title	Number	Date	Scale	Size
1	RFI - 009.pdf		6/6/2012		

**STRUCTURAL NOTES:**

**GENERAL NOTES:**

- FIELD VERIFY ALL DIMENSIONS, LOCATIONS AND ELEVATIONS SHOWN ON CONTRACT DRAWINGS FOR EXISTING STRUCTURES. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- THE SIZES AND LOCATIONS OF EQUIPMENT PADS AND PEDESTALS, AS WELL AS EQUIPMENT-RELATED FLOOR AND WALL OPENINGS, ARE DEPENDENT ON THE ACTUAL EQUIPMENT FURNISHED. VERIFY AND COORDINATE ALL SUCH ITEMS. DIMENSIONS INDICATED ON THESE DRAWINGS SHALL NOT BE ALTERED WITHOUT APPROVAL OF THE ENGINEER. STRUCTURAL DRAWINGS MAY NOT SHOW ALL EQUIPMENT PADS AND OTHER EQUIPMENT SUPPORTS REQUIRED. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL ACTIVITIES, INCLUDING THOSE OF SUBCONTRACTORS, WITH THE COUNTY'S ACTIVITIES.
- FOR NOTES PERTAINING TO INDIVIDUAL STRUCTURES, SEE DRAWINGS FOR THOSE STRUCTURES.
- THE LOCATION OF BORINGS ARE SHOWN ON THE CIVIL DRAWING C1.1.

**FOUNDATION NOTES:**

- DESIGN BEARING PRESSURE SHALL BE 3000 PSF.
- KEEP ALL EXCAVATIONS DRY. STANDING WATER WILL NOT BE ALLOWED IN EXCAVATIONS. PLACE A LAYER OF 10 MIL VAPOR BARRIER AND A 6" LAYER OF CRUSHED STONE UNDER ALL INTERIOR SLABS ON GRADE. ALL EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE ENGINEER AND COUNTY INSPECTIONS BEFORE PLACING ANY CONCRETE OR CRUSHED STONE.
- FOR MECHANICAL AND ELECTRICAL WORK TO BE INCORPORATED IN FOUNDATION WORK, SEE MECHANICAL AND ELECTRICAL DRAWINGS.
- DO NOT PLACE BACKFILL AGAINST SUBSTRUCTURE WALLS UNTIL UPPER BRACING FLOORS ARE IN PLACE FOR A MINIMUM OF SEVEN DAYS.

**CONCRETE NOTES:**

- PROVIDE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS, FOR STRUCTURAL COMPONENTS, AND CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS, FOR SIDEWALKS, CURBS, FENCE POSTS, ETC.
- DETAIL AND CONSTRUCT REINFORCED CONCRETE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE."
- DETAIL REINFORCING STEEL IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE ACI 315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," AND ACI SP-06, "ACI DETAILING MANUAL."
- PROVIDE REINFORCEMENT CONFORMING TO ASTM A 615, GRADE 60, DEFORMED BARS.
- UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE CONCRETE COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:
  - BOTTOM BARS IN FOOTINGS AND IN SLABS ON EARTH OR GRAVEL: 3".
  - BEAMS, SLABS, COLUMNS AND WALLS EXPOSED TO GROUND, WEATHER, PROCESS LIQUID OR VAPORS AFTER REMOVAL OF FORMS: 2".
  - BEAMS, COLUMNS, WALLS AND PIERS NOT EXPOSED TO WEATHER OR PROCESS LIQUID OR VAPORS: 1-1/2".
- SUBMIT REINFORCING STEEL DETAILS (SHOP DRAWINGS) AND RECEIVE APPROVAL BEFORE PROCEEDING WITH FABRICATION.
- CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.
- DETAIL ALL SPLICES FOR REINFORCING BARS NOT DIMENSIONED ON THE DRAWINGS AS TABULATED ON THIS DRAWING.
- POUR CONCRETE SLABS AND WALLS BETWEEN INDICATED JOINTS, ALLOWING A MINIMUM ELAPSED PERIOD OF 3 DAYS BETWEEN ADJACENT POURS.
- PROVIDE JOINTS AS DETAILED ON THE DRAWINGS. NO ADDITIONAL JOINTS SHALL BE USED NOR ANY OMITTED EXCEPT BY WRITTEN AUTHORIZATION FROM THE ENGINEER. APPROVED ADDITIONAL JOINTS SHALL NOT RESULT IN ADDITIONAL EXPENSE TO THE OWNER.
- WHERE A SLAB IS SLOPED (TOP AND/OR BOTTOM), PROVIDE SLOPED REINFORCING PARALLEL TO THE CONCRETE SURFACE.
- SIZE AND LOCATE ANCHOR BOLTS AND EQUIPMENT PADS OR PEDESTALS TO SUIT EQUIPMENT FURNISHED.
- REVIEW ALL DRAWINGS FROM OTHER DISCIPLINES AND COORDINATE ALL OPENINGS AND EMBEDDED ITEMS SUCH AS SLEEVES, ANCHORS, CONDUIT, ETC. THAT WILL BE INCORPORATED INTO CONCRETE WORK.
- PROVIDE BONDING COMPOUND AT ALL LOCATIONS IN WHICH FRESH CONCRETE COMES IN CONTACT WITH CURED CONCRETE.
- THE CONCRETE COLUMNS WITHIN THE 8-INCH CONCRETE MASONRY WALLS AT THE COMFORT STATION WILL REQUIRE THE POUR TO BE INSTALLED IN "LIFTS" TO PREVENT SEGREGATION OF THE AGGREGATES WITHIN THE WET CONCRETE.

*REF #8 COLUMN LEFT POURS IN 8" CMU WALLS WITH A REINFORCE IT IS ACCEPTABLE TO POUR CONC COLUMNS WITHIN THE 8" CMU WALLS MONO LATERALLY USING THE READY MIX CONC IN REF #8.*

*REF #8 Δ CONC MIX DESIGN TO SMALL AGGREGATE MIX WITH A SUPER PLAST ADDITIVE, 4500 PSI MIX*

**STRUCTURAL STEEL NOTES:**

- FABRICATE AND ERECT STRUCTURAL STEEL CONFORMING TO THE REQUIREMENTS OF AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), "MANUAL OF STEEL CONSTRUCTION".
- SUBMIT ERECTION PLANS AND SHOP DETAILS AND RECEIVE APPROVAL BEFORE PROCEEDING WITH FABRICATION.
- PROVIDE STRUCTURAL STEEL HSS MEMBERS CONFORMING TO ASTM A500, GRADE B. ALL OTHER MEMBERS SHALL CONFORM TO ASTM A36.
- PROVIDE HEAVY HEX HEAD ANCHORS CONFORMING TO ASTM F1554, GRADE 55 FOR COLUMN BASE PLATES ANCHORAGE. REFER TO THE SECTIONS AND DETAILS ON THE SHEETS FOR SIZE, AND EMBEDMENT DEPTHS.
- PROVIDE STAINLESS STEEL HEAVY HEX HEAD CAST-IN-PLACE STUDS, NUTS, AND WASHERS CONFORMING TO ASTM F593, TYPE 316 F<sub>y</sub>=65 KSI FOR SIZES FROM 1/4 INCH TO 5/8 INCH DIAMETERS, AND F<sub>y</sub>=45 KSI FOR STUDS FROM 3/4 INCH TO 1 1/2 INCH DIAMETERS.
- WELD IN COMPLIANCE WITH AMERICAN WELDING SOCIETY AWS D1.1, "STRUCTURAL WELDING CODE."
- MILL BOTTOM OF ALL COLUMNS AND FINISH TOP OF ALL BASE PLATES IN ACCORDANCE WITH AISC SPECIFICATIONS. WELD BASE PLATES TO BOTTOM OF COLUMNS.
- DO NOT SHOP PRIME STEEL SURFACES TO BE EMBEDDED IN CONCRETE OR MORTAR, OR JOINTS TO BE FIELD WELDED.

**CODES AND STANDARDS:**

- INTERNATIONAL BUILDING CODE IBC 2006 INCLUDING THE MODIFICATIONS MADE BY LOCAL JURISDICTION.
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "STEEL CONSTRUCTION MANUAL - THIRTEENTH EDITION- ALLOWABLE STRESS DESIGN OR LOAD AND RESISTANCE FACTOR DESIGN.
- AMERICAN CONCRETE INSTITUTE ACI-318, LATEST EDITION, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- AMERICAN CONCRETE INSTITUTE ACI-530/ ASCE 5/ TMS 402, LATEST EDITION "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES".
- AMERICAN SOCIETY OF CIVIL ENGINEERS ASCE 7, LATEST EDITION, "MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES."
- AMERICAN FOREST AND PAPER ASSOCIATION, LATEST EDITION, "NATIONAL DESIGN SPECIFICATION FOR WOOD."

**CONCRETE MASONRY NOTES:**

- CONSTRUCT MASONRY IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE ACI-530/ ASCE 5/ TMS 402 LATEST EDITION BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES".
- PROVIDE HOLLOW REGULAR WEIGHT LOAD-BEARING CONCRETE MASONRY UNITS MEETING THE REQUIREMENTS OF ASTM C 90.
- PROVIDE MORTAR CONFORMING TO THE REQUIREMENTS OF ASTM C-270, TYPE M OR S. CEMENT USED FOR MORTAR SHALL BE PORTLAND CEMENT.
- PROVIDE GROUT CONFORMING TO THE REQUIREMENTS OF ASTM C 476 COARSE GROUT, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS.
- PROVIDE CONCRETE MASONRY UNITS WITH A MINIMUM COMPRESSIVE STRENGTH (F<sub>m</sub>) OF 1,500 PSI.
- PROVIDE REINFORCING BARS CONFORMING TO ASTM A 615, GRADE 60.
- IN ADDITION TO THE MASONRY WALL REINFORCEMENT SHOWN ON THE DRAWINGS, FURNISH THE FOLLOWING: #5 VERTICAL REINFORCEMENT SHALL BE PROVIDED AT CORNERS, WITHIN 16 INCHES OF EACH SIDE OF OPENINGS, WITHIN 8 INCHES OF EACH SIDE OF MOVEMENT JOINTS AND WITHIN 8 INCHES OF THE ENDS OF THE WALLS.
- SEE SPECIFICATIONS FOR HORIZONTAL REINFORCEMENT.

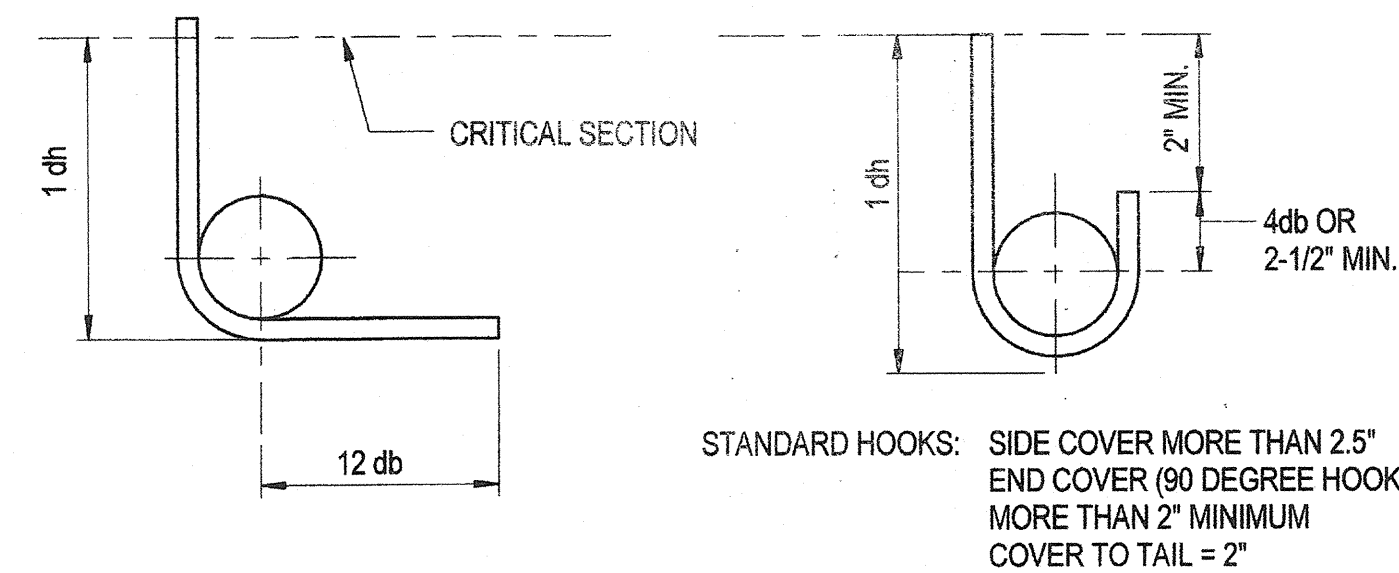
**WOOD NOTES:**

- GLULAM MEMBERS SHALL BE SPECIES SP/SP, WET CONDITIONS USE, AND ARCHITECTURAL APPEARANCE, WITH THE FOLLOWING MINIMUM DESIGN VALUE: F<sub>bx</sub>=2400 PSI.
- MANUFACTURER QUALIFICATIONS INCLUDE CERTIFICATION BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC) OR THE AMERICAN PLYWOOD ASSOCIATION (APA).
- GLULAM MEMBERS SHALL COMPLY WITH AITC, A190.1, WITH EACH PIECE MARKED WITH AN AITC QUALITY MARK, OR AN APA-EWS TRADEMARK.
- SAWN TIMBER MEMBERS SHALL BE SOUTHERN PINE GRADE SELECT STRUCTURAL, VISUALLY GRADED, OR APPROVED EQUAL, WITH THE FOLLOWING DESIGN VALUE: F<sub>b</sub>=1500 PSI.
- PROVIDE STAINLESS STEEL BOLTS, HEX HEAD NUTS, AND WASHERS FOR ALL BEAM AND GIRDER CONNECTIONS, CONFORMING TO:
  - ASTM F593, TYPE 316 FOR NUTS
  - ASTM F594, TYPE 316 FOR BOLTS, AND WASHERS.
- ALL STRUCTURAL WOOD MEMBERS (GLULAM, WOOD DECKING, WOOD BEAMS, AND WOOD JOISTS) SHALL BE TREATED WITH PRESERVATIVES.

**DESIGN LOADS:**

- DEAD LOADS:
  - STRUCTURES: ACTUAL WEIGHT
  - WEIGHT OF SOIL - 100 PCF FOR RESISTING UPLIFT
  - WEIGHT OF SOIL - 120 PCF FOR DEAD LOAD
  - MECHANICAL/ELECTRICAL/PLUMBING - 5 PSF (COMFORT STATION)
- LIVE LOADS:
  - SLAB ON GRADE: 150 PSF
  - ROOF - 30 PSF (NO REDUCTION)
  - SNOW LOAD - GROUND SNOW LOAD - (25) PSF
- WIND LOAD:
  - BASIC WIND SPEED: 90 MPH
  - EXPOSURE CATEGORY: C
  - WIND LOAD IMPORTANCE FACTOR (I): 1.00
  - BUILDING OCCUPANCY CATEGORY: II
- SEISMIC LOAD:
  - BUILDING OCCUPANCY CATEGORY: II
  - SITE CLASSIFICATION: D
  - SPECTRAL RESPONSE COEFFICIENT: SDS = 0.164; SD1 = 0.051
  - SEISMIC IMPORTANCE FACTOR (I): 1.0

BAR SIZE	LAP SPLICE LENGTH				MINIMUM TENSION EMBEDMENT			
	SLAB AND WALL		BEAM		STD 90 HOOK		STD 180 HOOK	
ENGLISH	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	ldh	12db	ldh	4db
#3	12"	16"	13"	18"	6"	5"	6"	2 1/2"
#4	15"	20"	22"	28"	7"	6"	7"	2 1/2"
#5	20"	24"	32"	41"	9"	8"	9"	3"
#6	22"	30"	40"	52"	10"	9"	10"	3"
#7	37"	48"	59"	76"	12"	11"	12"	4"
#8	48"	60"	68"	89"	14"	12"	14"	4"
#9	58"	74"	77"	101"	15"	14"	15"	5"
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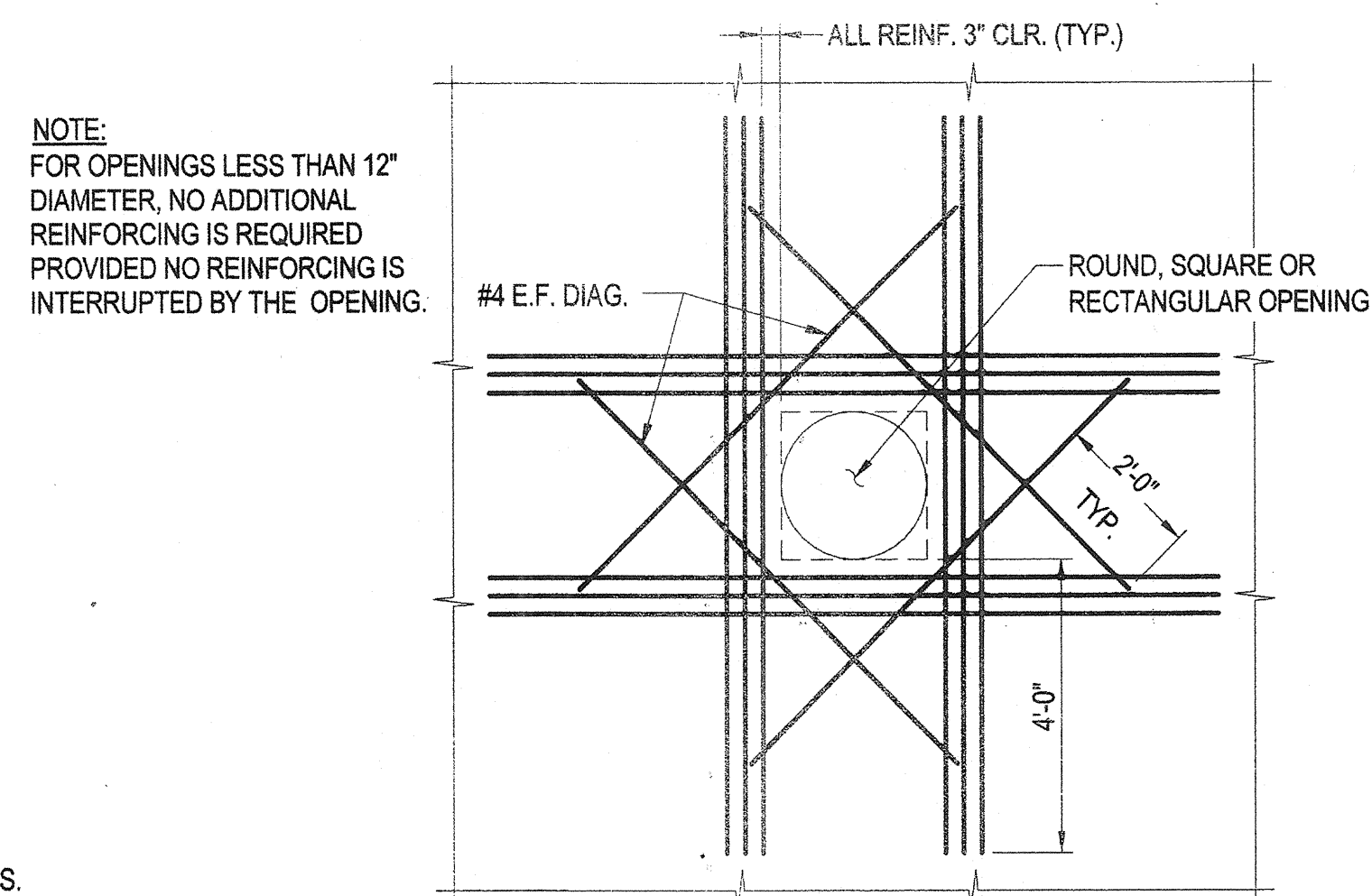
**ASSUMPTIONS:**

SLAB AND WALL: 6" MINIMUM REBAR SPACING WITH CONCRETE COVER = 1.5" CLEAR

BEAM: MINIMUM CLEAR SPACING BETWEEN BARS = 1.5db (BAR DIAMETER). MINIMUM CONCRETE COVER = 1.5" CLEAR. MINIMUM STIRRUP #4@12" PROVIDED.

TOP BAR: TOP BAR FOR SLAB AND BEAM SHALL BE DEFINED AS REINFORCEMENT SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST BELOW THE SPLICE

**TENSION LAP SPLICE AND STANDARD HOOK LENGTH**  
(NON-EPOXY COATED)



NOTE: FOR OPENINGS LESS THAN 12" DIAMETER, NO ADDITIONAL REINFORCING IS REQUIRED PROVIDED NO REINFORCING IS INTERRUPTED BY THE OPENING.

PROVIDE ADDITIONAL REINFORCING, (MINIMUM OF ONE-HALF THE NUMBER OF PRINCIPAL BARS INTERRUPTED BY THE OPENING) ON EACH SIDE AND EACH FACE OF THE OPENING.

**TYPICAL ADDITIONAL REINFORCING AROUND OPENINGS**  
NO SCALE

REVISIONS	
BID SET	11/28/11

**HOWARD COUNTY**

DEPARTMENT OF RECREATION AND PARKS  
7120 OAKLAND MILLS ROAD  
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS  
9250 BENDIX ROAD  
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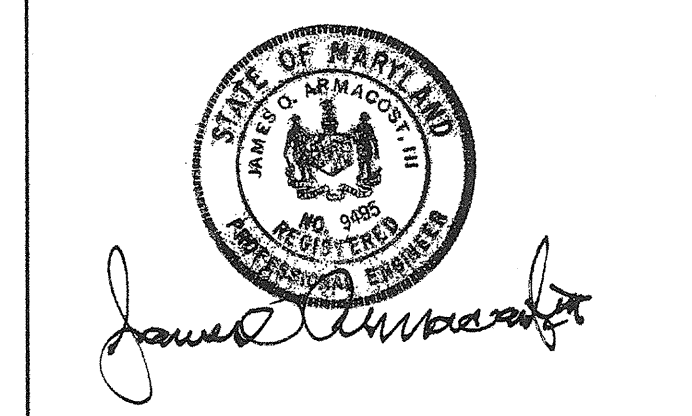
**WR&A**

**WHITMAN, REQUARDT & ASSOCIATES, LLP**  
801 South Caroline Street, Baltimore, Maryland 21231  
Phone: 410-335-1150 Fax: 410-343-9716

**KEY PLAN**

**GRAPHIC SCALES**

**SIGNATURE**



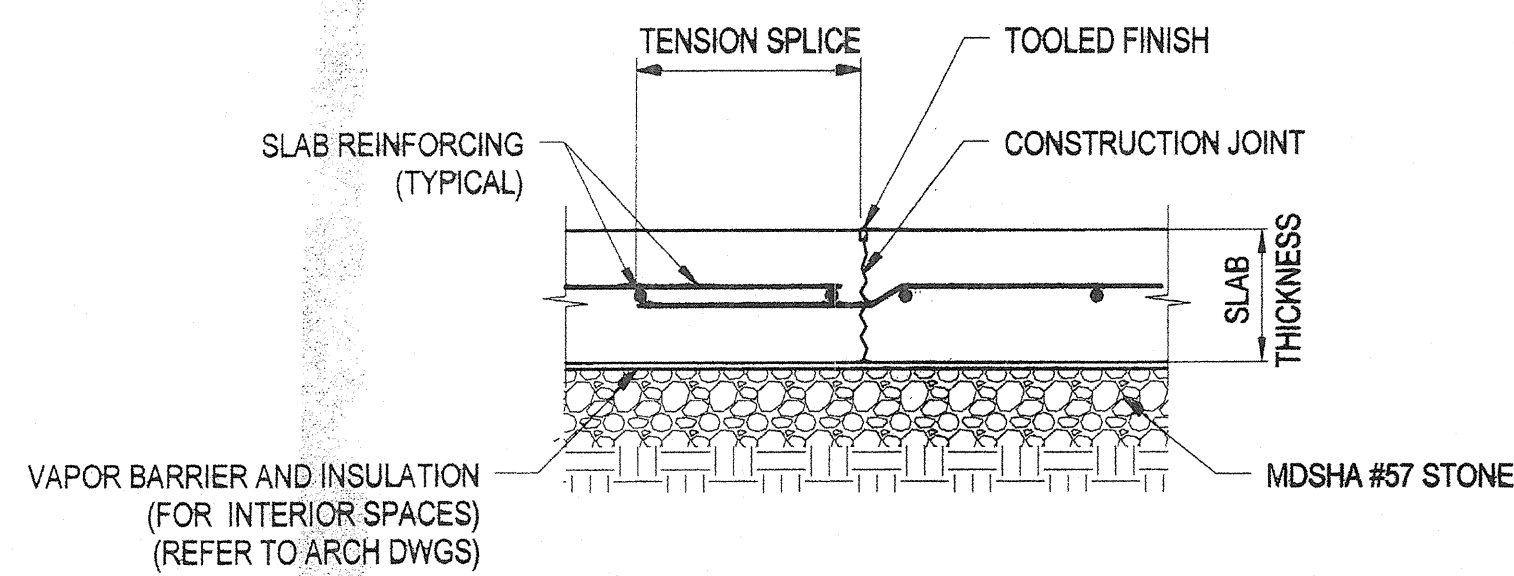
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EXPIRATION DATE: 09/27/2013

**BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT**

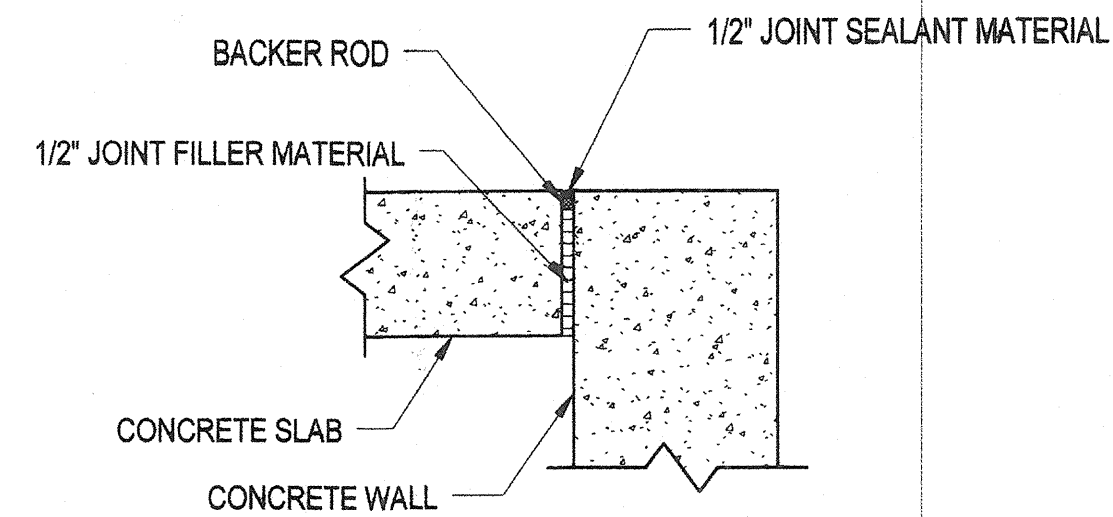
GENERAL NOTES & TYPICAL DETAILS

Drawing No.  
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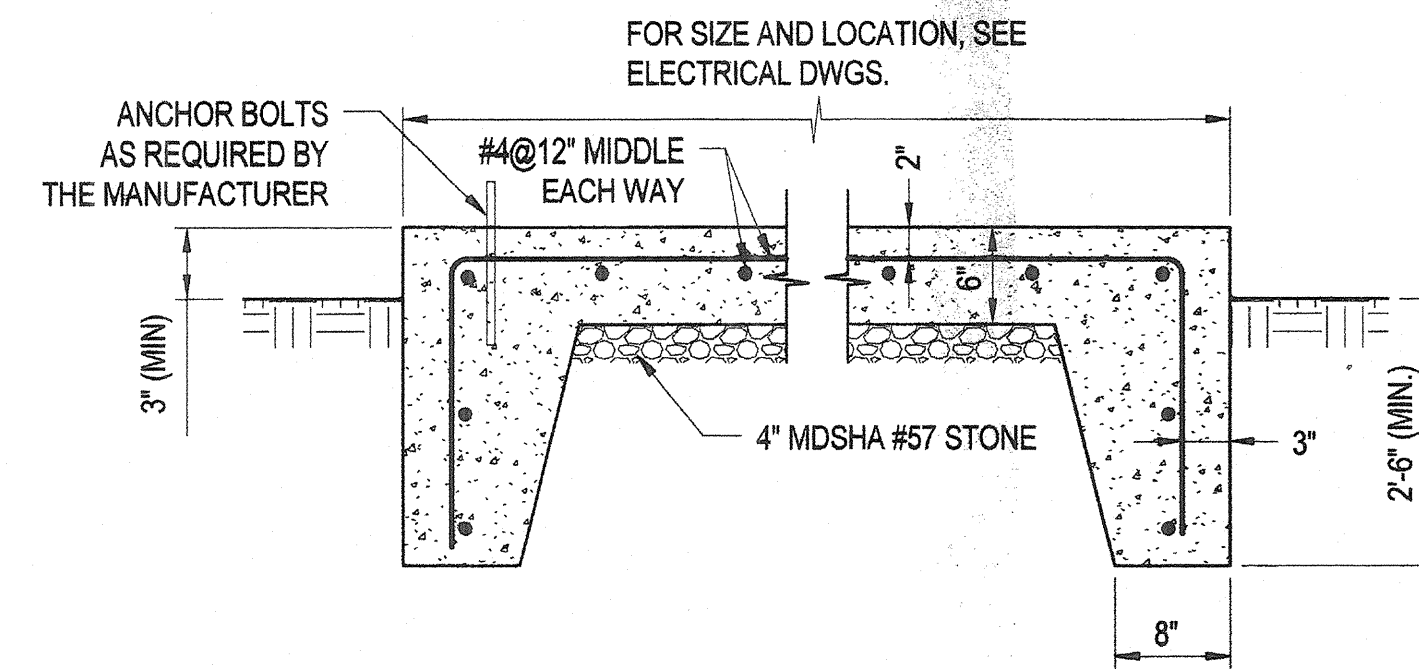
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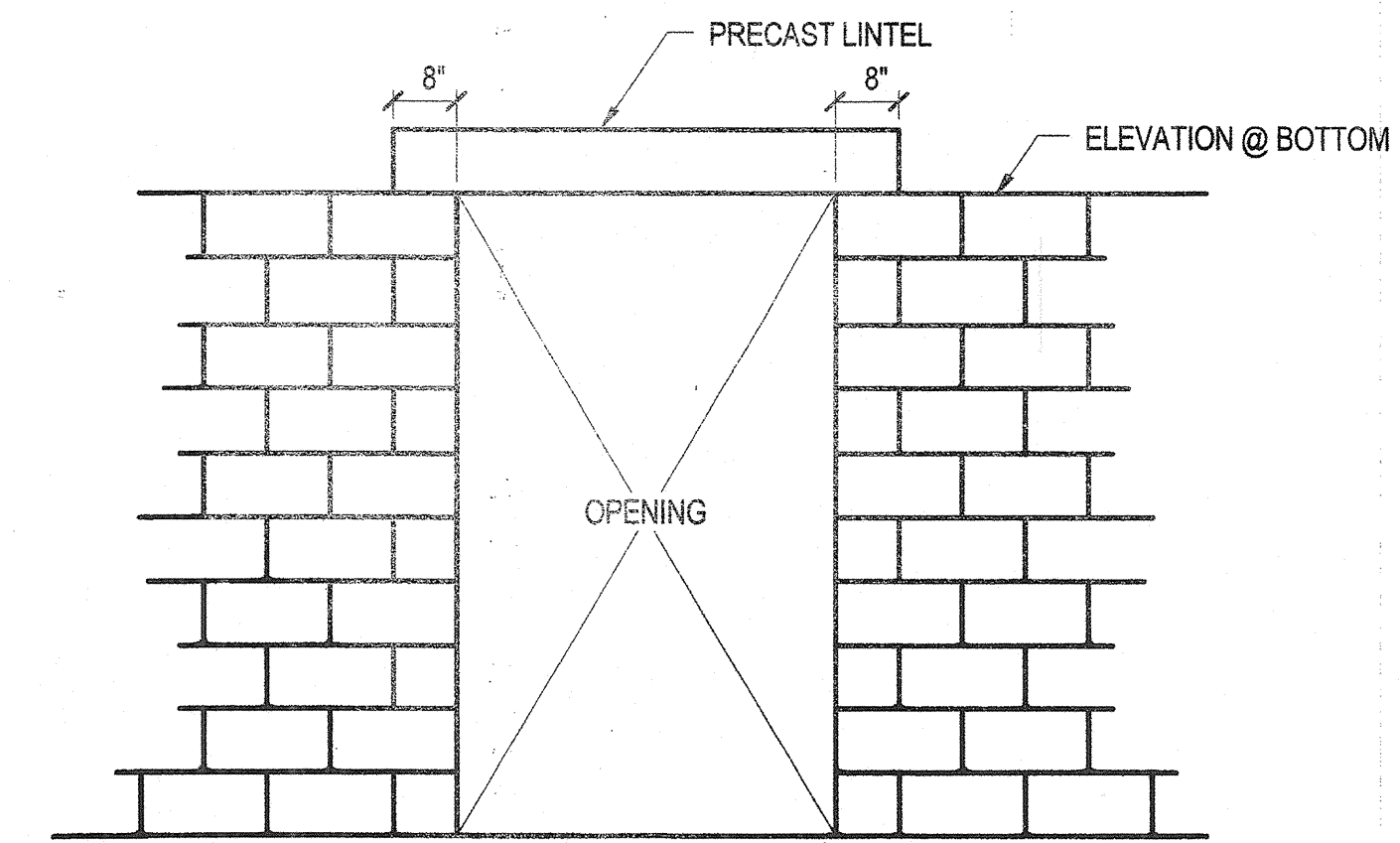
TYPICAL CONSTRUCTION JOINT IN SLAB  
NO SCALE



TYPICAL EXPANSION JOINT AT SLAB AND WALL  
NO SCALE

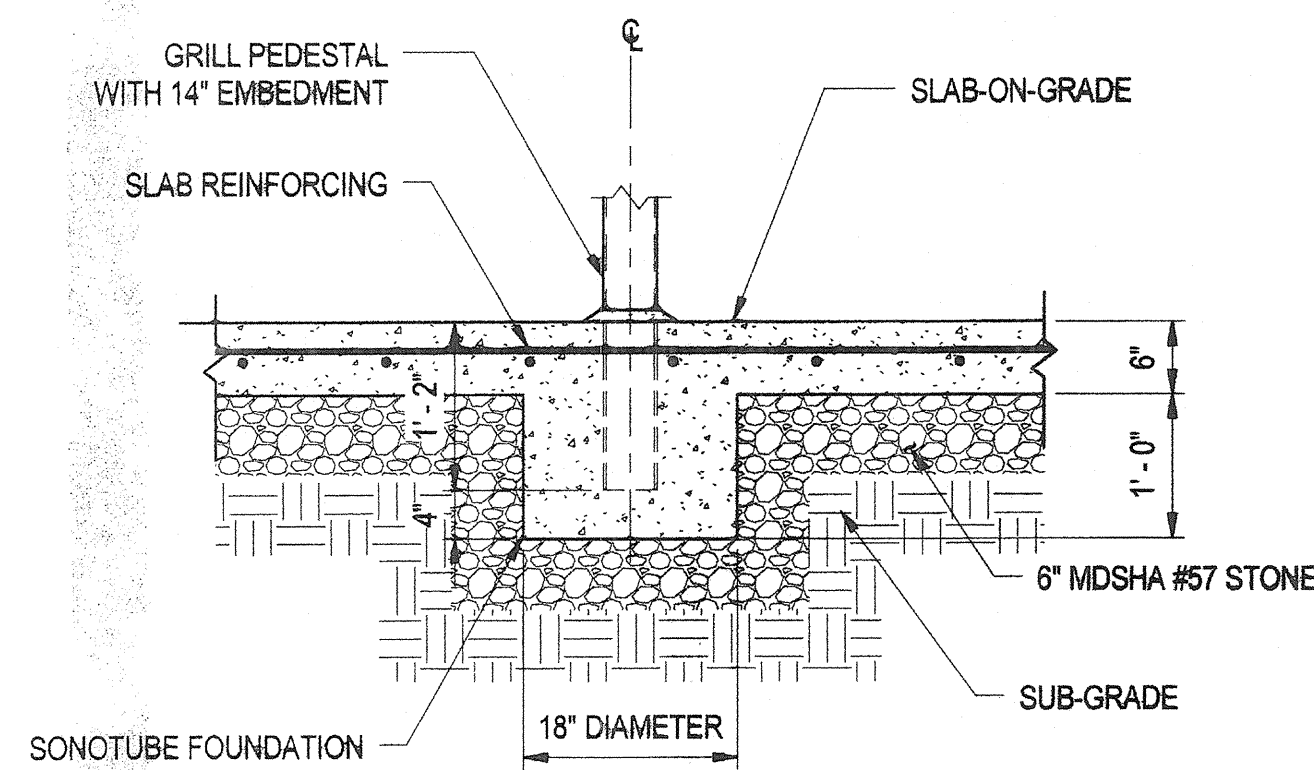


TYPICAL EXTERIOR EQUIPMENT PAD  
SUPPORT DETAIL  
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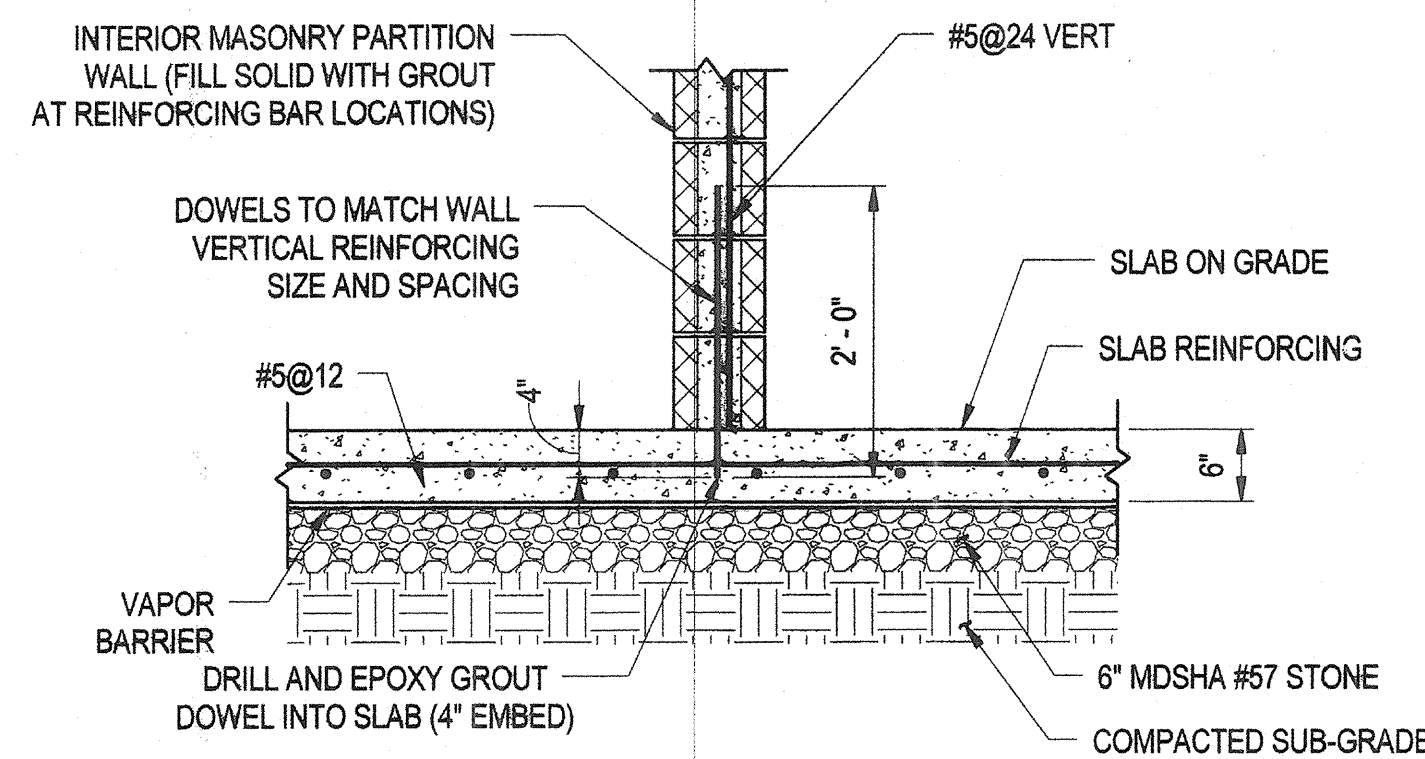


TYPICAL PRECAST LINTEL-ELEVATION  
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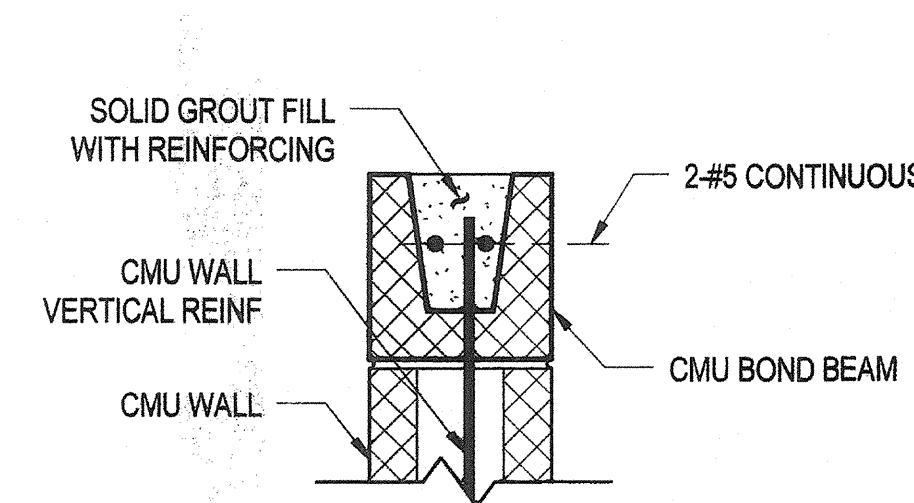
NOTE: REFER TO DOOR AND/OR WINDOW SCHEDULE ON ARCHITECTURAL DRAWINGS FOR OPENING SIZES



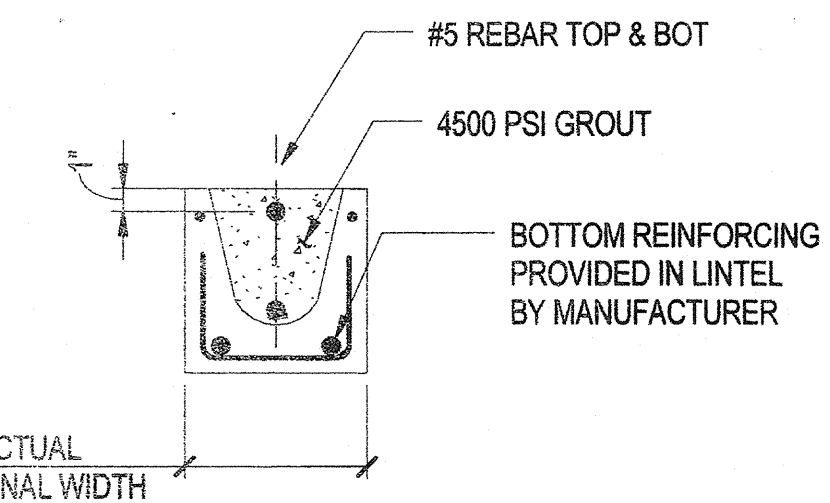
TYPICAL METAL POST EMBEDMENT DETAIL  
NO SCALE



NON-LOAD BEARING PARTITION CMU WALL BASE DETAIL  
NO SCALE

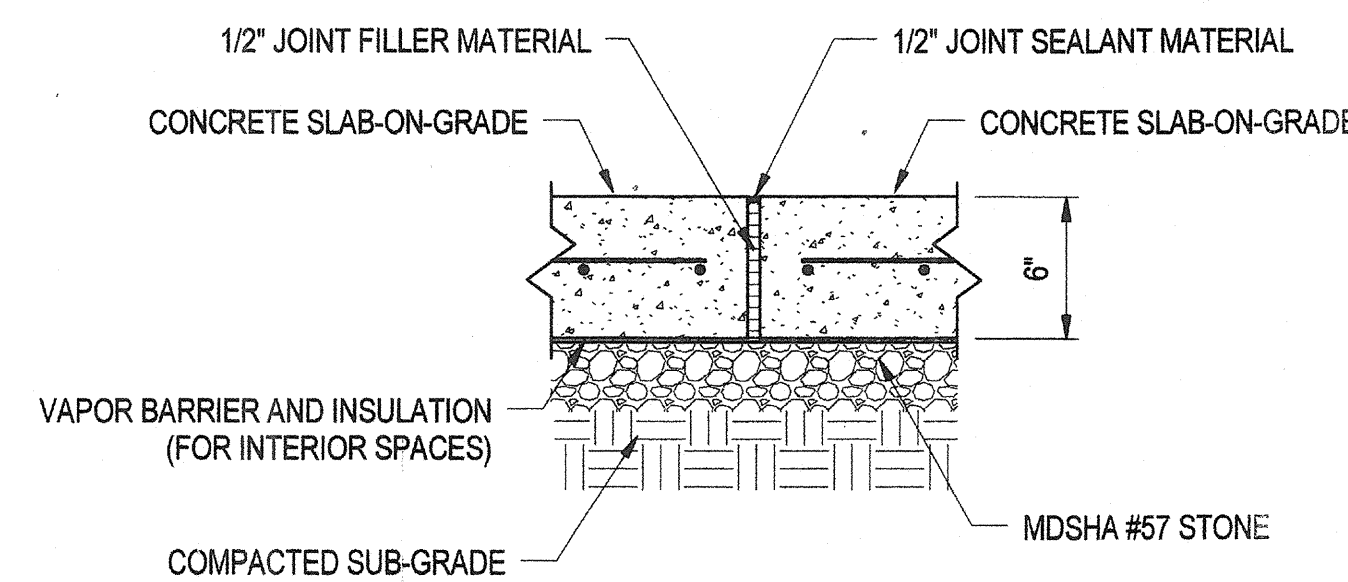


TYPICAL CMU BOND BEAM DETAIL  
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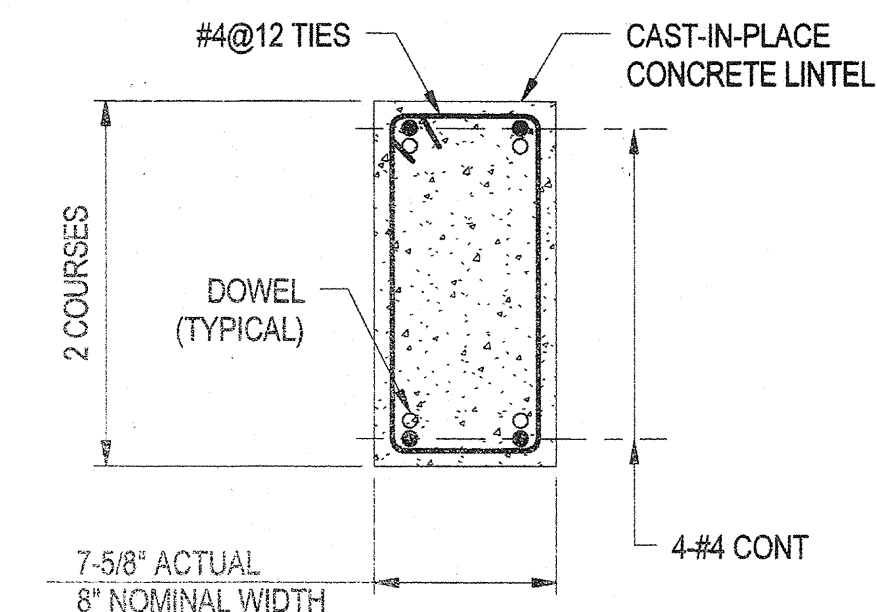


TYPICAL PRECAST LINTEL-SECTION  
NO SCALE

AT 3'-4" WIDE OPENINGS



TYPICAL SLAB EXPANSION JOINT  
NO SCALE

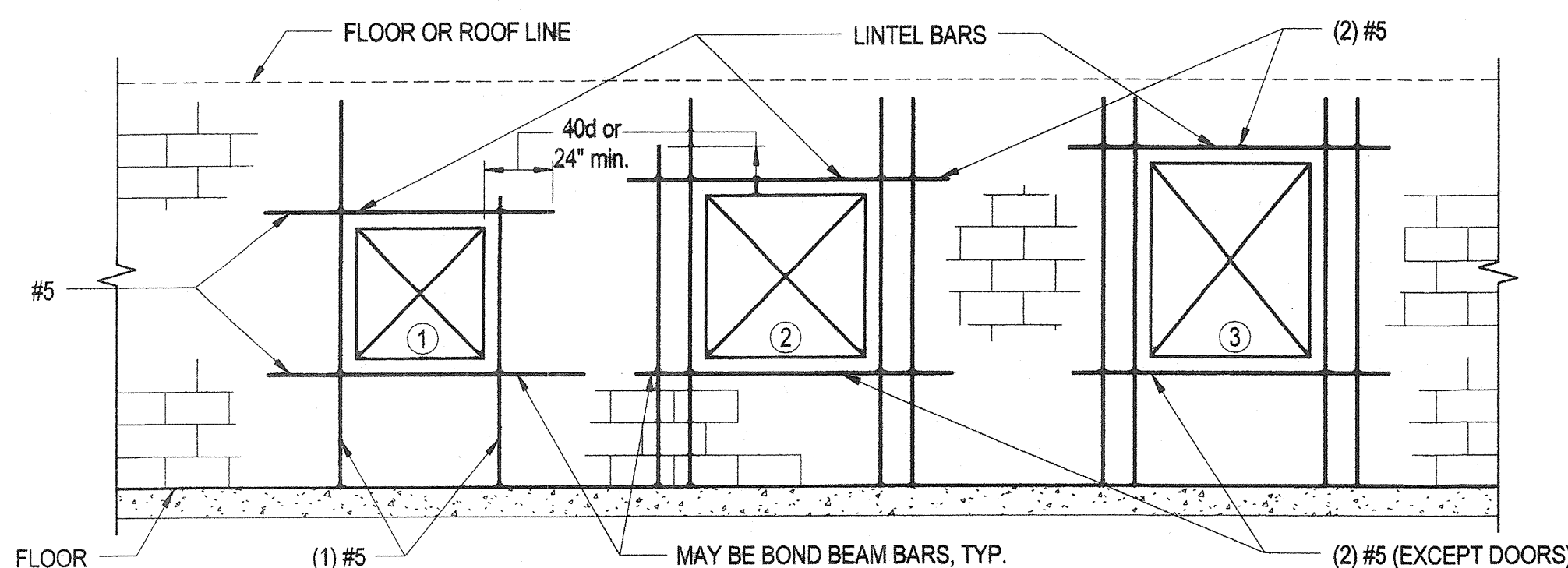


TYPICAL CAST-IN-PLACE LINTEL-SECTION  
NO SCALE

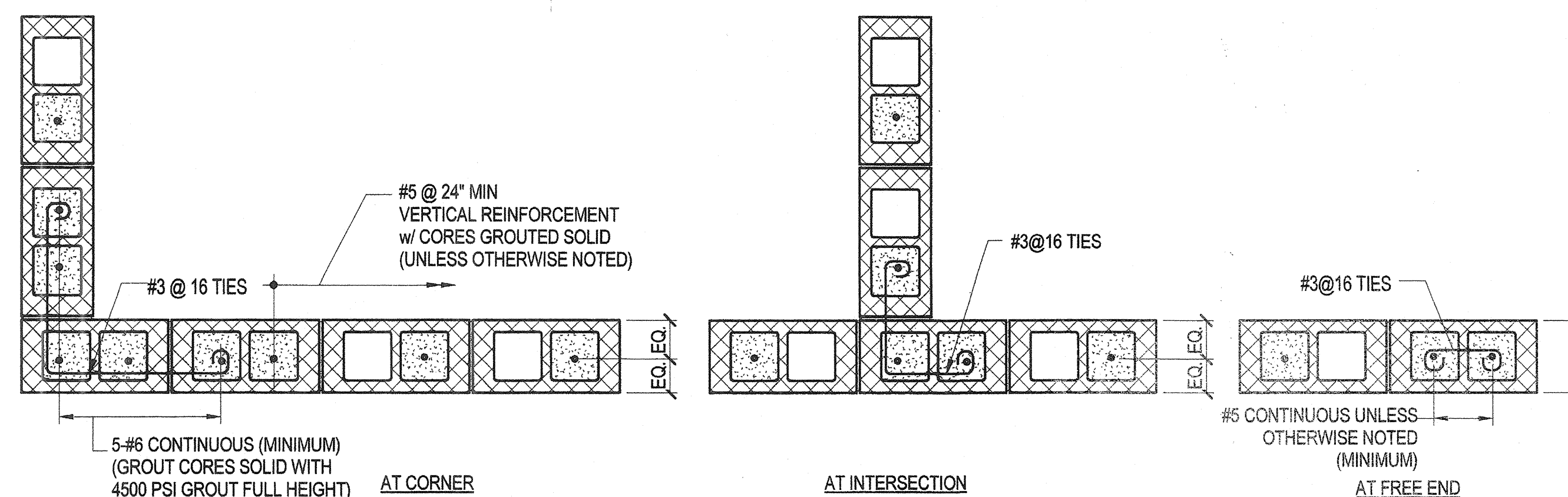
NOTE: PROVIDE HOOKED DOWELS INTO CONCRETE COLUMN WITH MINIMUM LAP SPLICE AT EACH END OF CONCRETE LINTEL.

- NOTES
1. GROUT LINTELS SOLID FOR 1" (MIN.) BEYOND OPENING
  2. FOR (1) OPENINGS, CMU LINTEL IS 8" DEEP
  - FOR (2) OPENINGS, CMU LINTEL IS 16" DEEP
  - FOR (3) OPENINGS, CMU LINTEL IS 24" DEEP, UNLESS OTHERWISE NOTED.
  3. BOND BEAM REINFORCEMENT NOT SHOWN FOR CLARITY.

- LEGEND
- (1) BOTH EDGES OF OPENING 2'-0" OR LESS
  - (2) EITHER EDGE OF OPENING EXCEED 2'-0" BUT LESS THAN 4'-0"
  - (3) EITHER EDGE OF OPENING EXCEEDS OR EQUALS 4'-0"



TYPICAL CMU WALL OPENING REINFORCING DETAILS  
NO SCALE



TYPICAL CMU WALL REINFORCING DETAILS  
NO SCALE

- NOTES
1. THESE ARE STANDARD DETAILS, AND NOT ALL CONDITIONS WILL APPLY.

REVISIONS	
BID SET	11/28/11

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KEY PLAN

GRAPHIC SCALES

SIGNATURE

*James J. Conroy*

PROFESSIONAL CERTIFICATION  
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EXPIRATION DATE: 09/27/2015

BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

TYPICAL STRUCTURAL DETAILS

Drawing No. **S0.2**

Scale: As indicated  
Date: 11/28/2011 Sheet 26 of 55  
Des: E.F. Drawn: A.A.B. Check: E.F.

N:\42038-001\CADD\Struct\42038-001\_Constr\_Shallow.rvt 11/10/2011 10:56:54 AM

RFI Transmittal

RFI ID: RFI-011  
Transmittal ID: 00070  
Date Sent: 6/12/2012

Project: Blandair Park-Phase I  
Number: 0811.1

To: Marion Davis  
Ikhana  
2120 Noisette Blvd.  
Suite 106A  
Charleston, SC 29405  
United States  
843-566-7800 (Phone)  
843-566-7841 (Fax)

From: Eric Feiss  
G|W|O, Inc./Architects  
800 Wyman Park  
Suite 300  
Baltimore, MD 21211  
US  
(410) 332-1009 x1107 (Phone)  
(410) 332-0038 (Fax)

Subject: RFI-011 Rebar Shop Drawings - J Bars  
Via: Email

Purpose: Answered  
Question: Sheet R5 of the rebar shop drawings submittal which is attached for reference shows double J Bars on one side of the footing only at all column footing details. Would it be acceptable to install one J Bar on each side of column in lieu of both on one side?

Suggestion:  
Answer: The shop drawing shows two J bars (technically should be L-shape dowels with a 90 degree hook) on one side of the steel column for the concrete columns but there should be two dowels shown on each side.

The design intent is to provide (4) dowels to lap with (4) vertical bars in each 8"x8" concrete column (typically two 8"x8" column per HSS6x6 column with the exception of column B-3 at the door).

This is reflected in the total quantity of (68) "5B06" given in the Bending Details chart on Sheet R5 for the concrete columns. There are (17) 8"x8" concrete columns, 17x4 = 68 dowels.

In addition to this response see attached sketch.

CC: Bill Reesler(Howard County Department of Public Works)  
Mark Kovach(Howard County Department of Public Works)  
Chris Ho(Whitman, Requardt & Associates, LLP)  
Wayne Chang(Whitman, Requardt & Associates, LLP)  
Howard Harris(Whitman, Requardt & Associates, LLP)

Description of Contents

RESPONSE to R.F.I.

Date Received: 6 June 2012

Date Responded: 7 June 2012

To: Eric Feiss

From: Howard Harris

Subject: Rebar Shop Drawing - J Bars

R.F.I. Forwarded by Contractor: Ikhana, LLC

Work Order Number: 42038-001

Contract Number: N-3102

Project: Blandair Park - Phase 1

R.F.I Number: 011

Contractor's Questions:

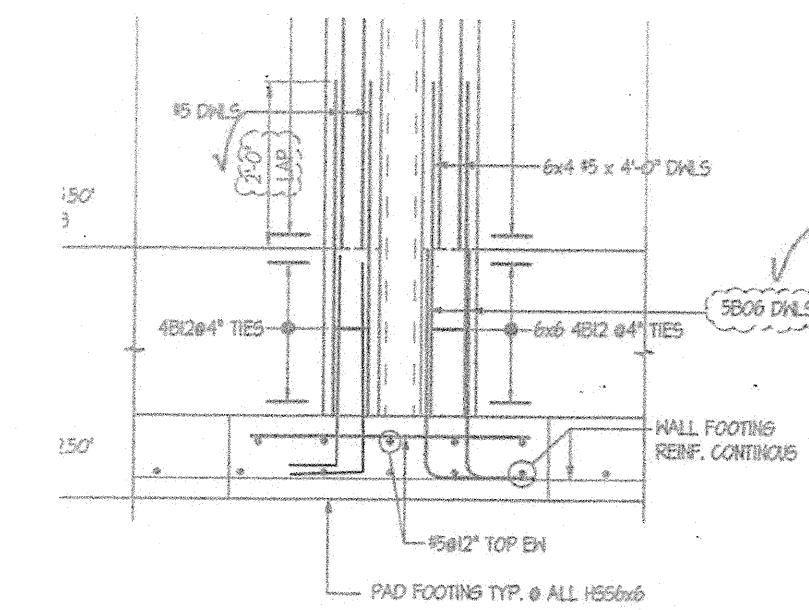
Sheet R5 of the rebar shop drawings submittal which is attached for reference shows double J Bars on one side of the footing only at all column footing details. Would it be acceptable to install one J Bar on each side of column in lieu of both on one side?

WR&A Responses:

The shop drawing shows two J bars (technically should be L-shape dowels with a 90 degree hook) on one side of the steel column for the concrete columns but there should be two dowels shown on each side.

The design intent is to provide (4) dowels to lap with (4) vertical bars in each 8"x8" concrete column (typically two 8"x8" column per HSS6x6 column with the exception of column B-3 at the door).

This is reflected in the total quantity of (68) "5B06" given in the Bending Details chart on Sheet R5 for the concrete columns. There are (17) 8"x8" concrete columns, 17x4 = 68 dowels.



11870 Merchants Walk, Suite 100, Newport News, Virginia 23606 www.wrallp.com Phone: 757.599.5101 Fax: 757.599.5320

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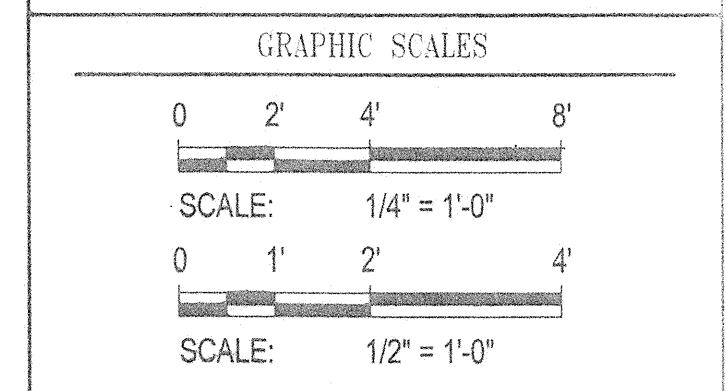
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BID SET	11/28/11

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DEPARTMENT OF PUBLIC WORKS  
 9250 BENDIN ROAD  
 ELLICOTT CITY, MD 21043

**WR&A**  
 WHITMAN, REQUARDT & ASSOCIATES, LLP  
 801 South Caroline Street, Baltimore, Maryland 21231  
 Phone: 410-233-3150 Fax: 410-233-5216

KEY PLAN



SIGNATURE

*Equal & Associates*

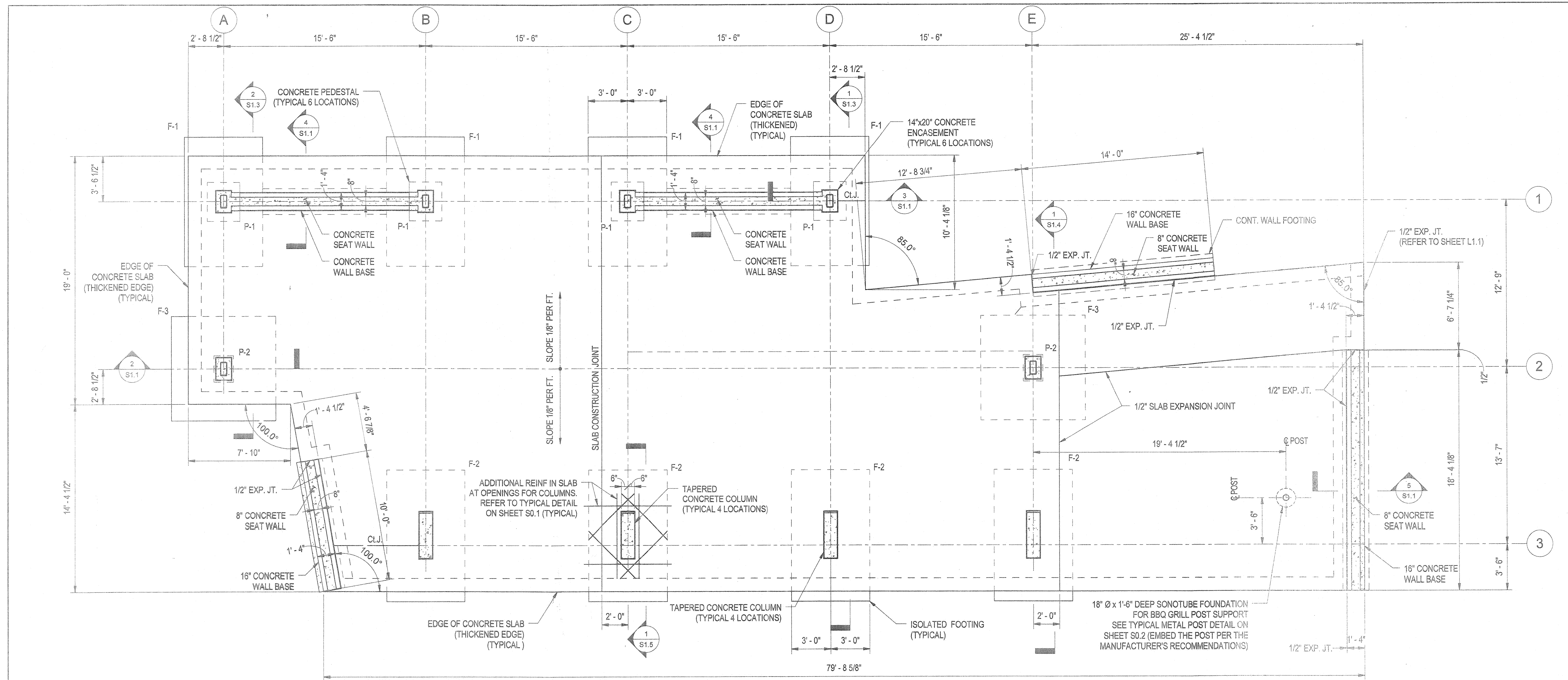
PROFESSIONAL CERTIFICATION  
 I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 9495  
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BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

PICNIC SHELTER - SLAB / FOUNDATION PLAN, AND SECTIONS

Drawing No. **S1.1**

Scale: As indicated  
 Date: 11/28/2011 Sheet 27 of 55  
 Des: E.F. Drawn: A.A.B. Check: E.F.

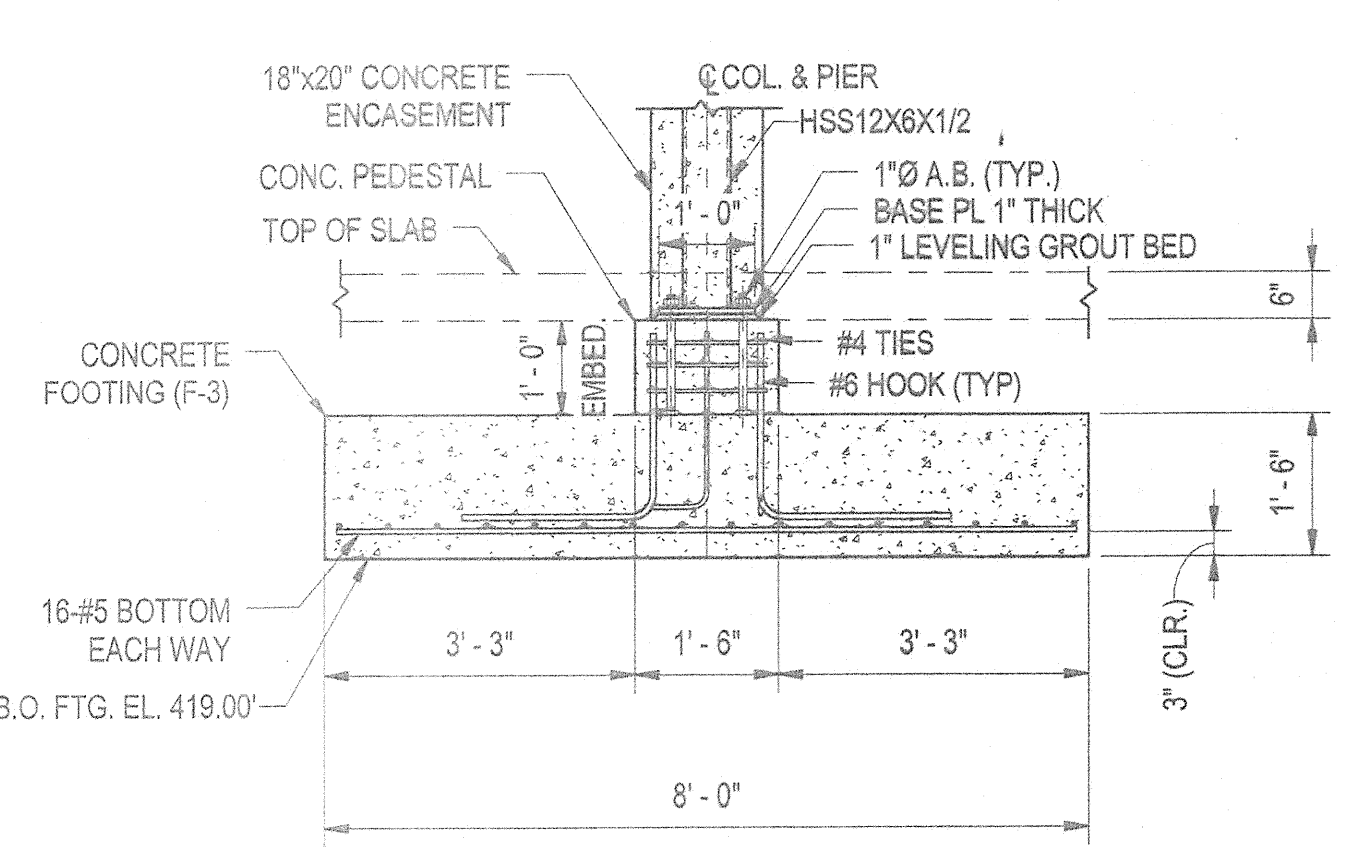


**FOOTING SCHEDULE**

MARK	SIZE	REINFORCING	REMARKS
F-1	6'-0"x10'-0"x18" THICK	12-#5 BOTTOM SHORT WAY 20-#5 BOTTOM LONG WAY	
F-2	6'-0"x10'-0"x18" THICK	12-#5 BOTTOM SHORT WAY 24-#5 BOTTOM LONG WAY	
F-3	8'-0"x8'-0"x18" THICK	16-#5 BOTTOM EACH WAY	

**PEDESTAL SCHEDULE**

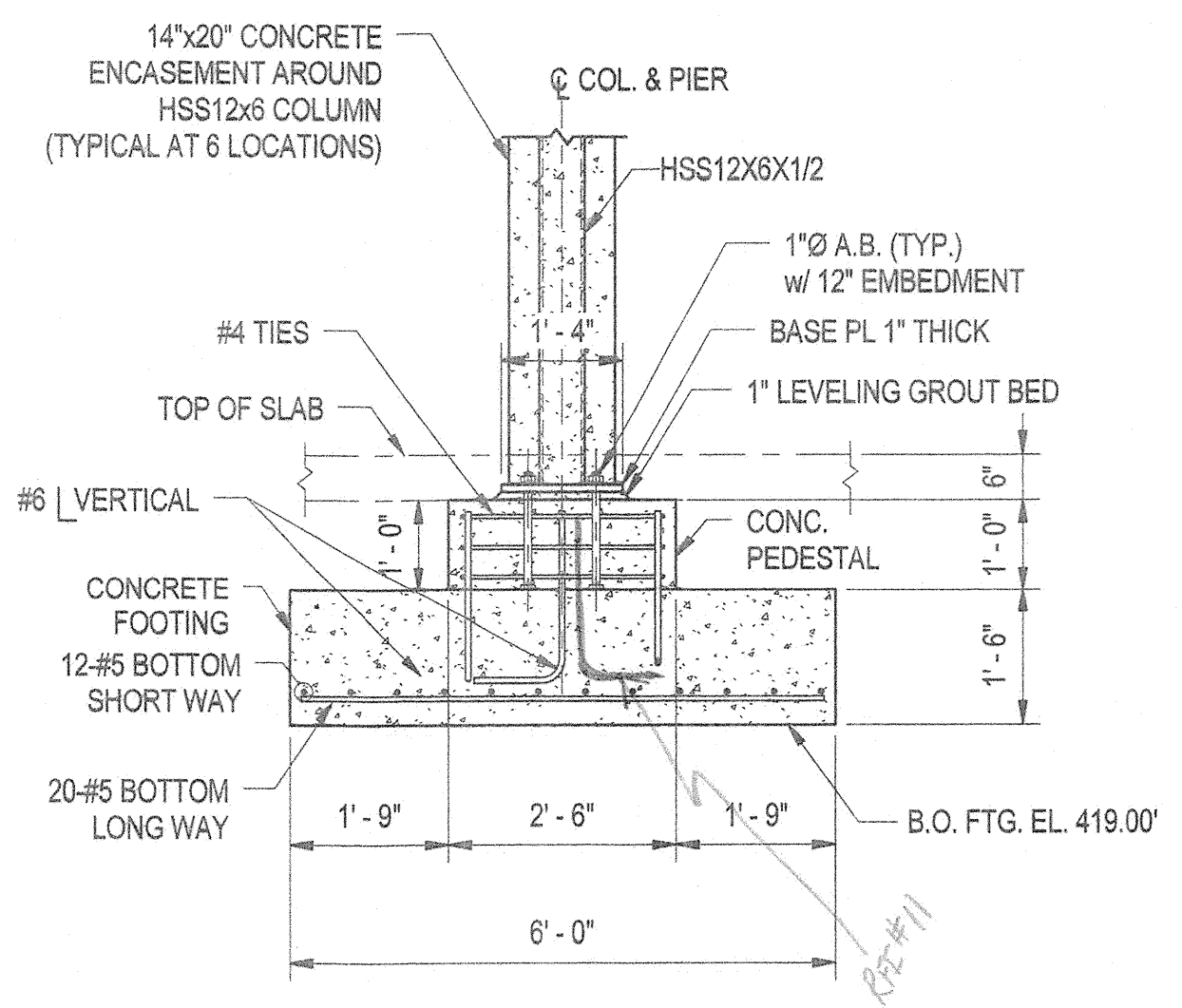
MARK	SIZE	REINFORCING	REMARKS
P-1	2'-6"x3'-0"	8-#6 VERTICAL w/ #4 TIES	
P-2	1'-6"x2'-0"	8-#6 VERTICAL w/ #4 TIES	



NOTE: REFER TO SHEET S1.5 FOR BASE PLATE DETAILS.

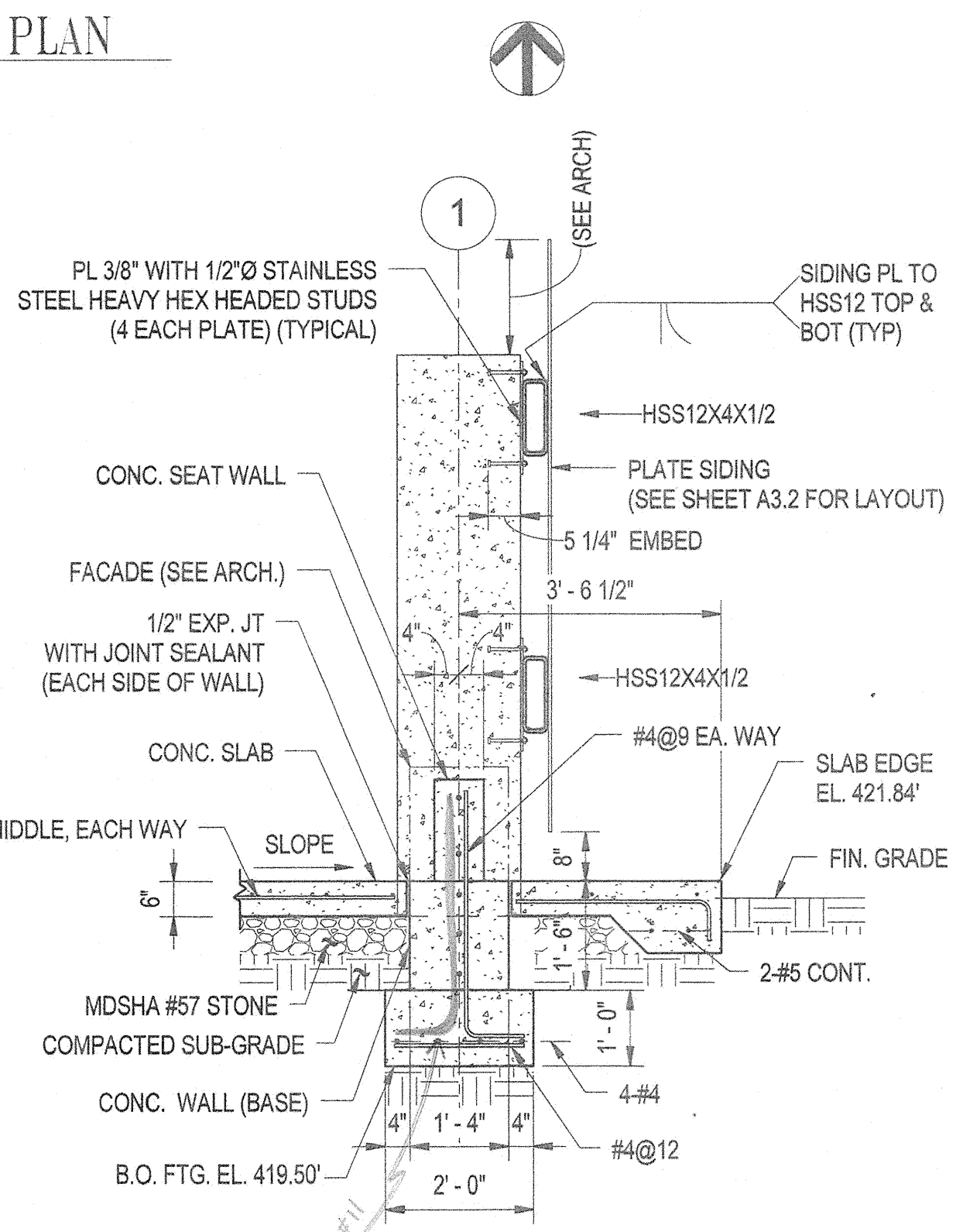
2 SECTION  
 S1.1 1/2" = 1'-0"

1 PICNIC SHELTER SLAB / FOUNDATION PLAN  
 S1.1 1/4" = 1'-0"



NOTE: REFER TO SHEET S1.5 FOR BASE PLATE DETAILS.

3 SECTION  
 S1.1 1/2" = 1'-0"



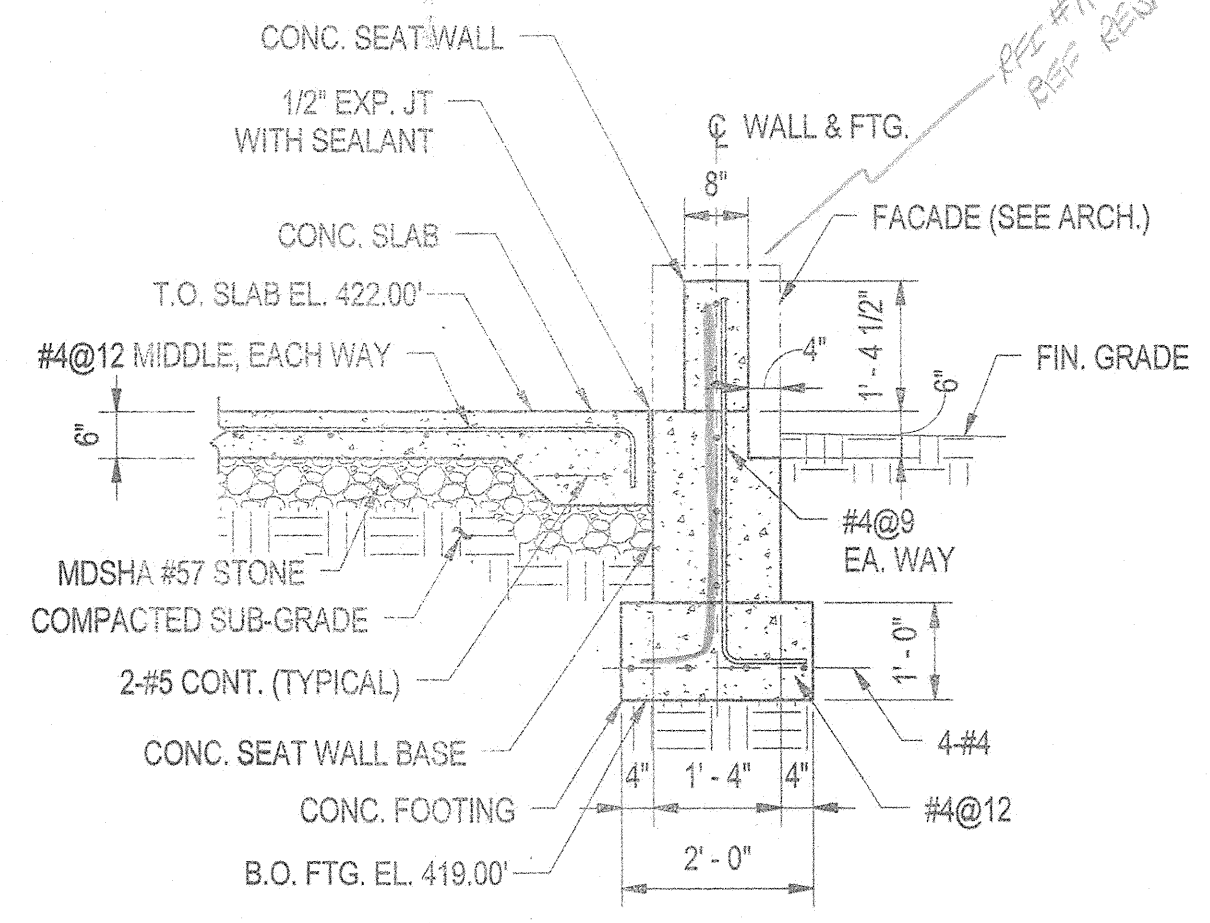
4 SECTION  
 S1.1 1/2" = 1'-0"

**PLAN NOTES**

- REFER TO SHEET S0.1 FOR STRUCTURAL NOTES, CODES, AND DESIGN LOADS.
- REFER TO SHEET S0.2 FOR TYPICAL STRUCTURAL DETAILS.
- FLOOR CONSTRUCTION TO BE 6 INCH THICK CONCRETE SLAB-ON-GRADE, WITH THICKENED EDGES, AND REINFORCED WITH #4@12 MIDDLE, EACH WAY. TOP OF CONCRETE SLAB ELEVATION AT THE HIGH POINT= 422.00' (ALONG GRID-LINE 2).
- REFER TO SHEET L1.1 FOR SCORING PATTERN FOR CONCRETE SLAB.

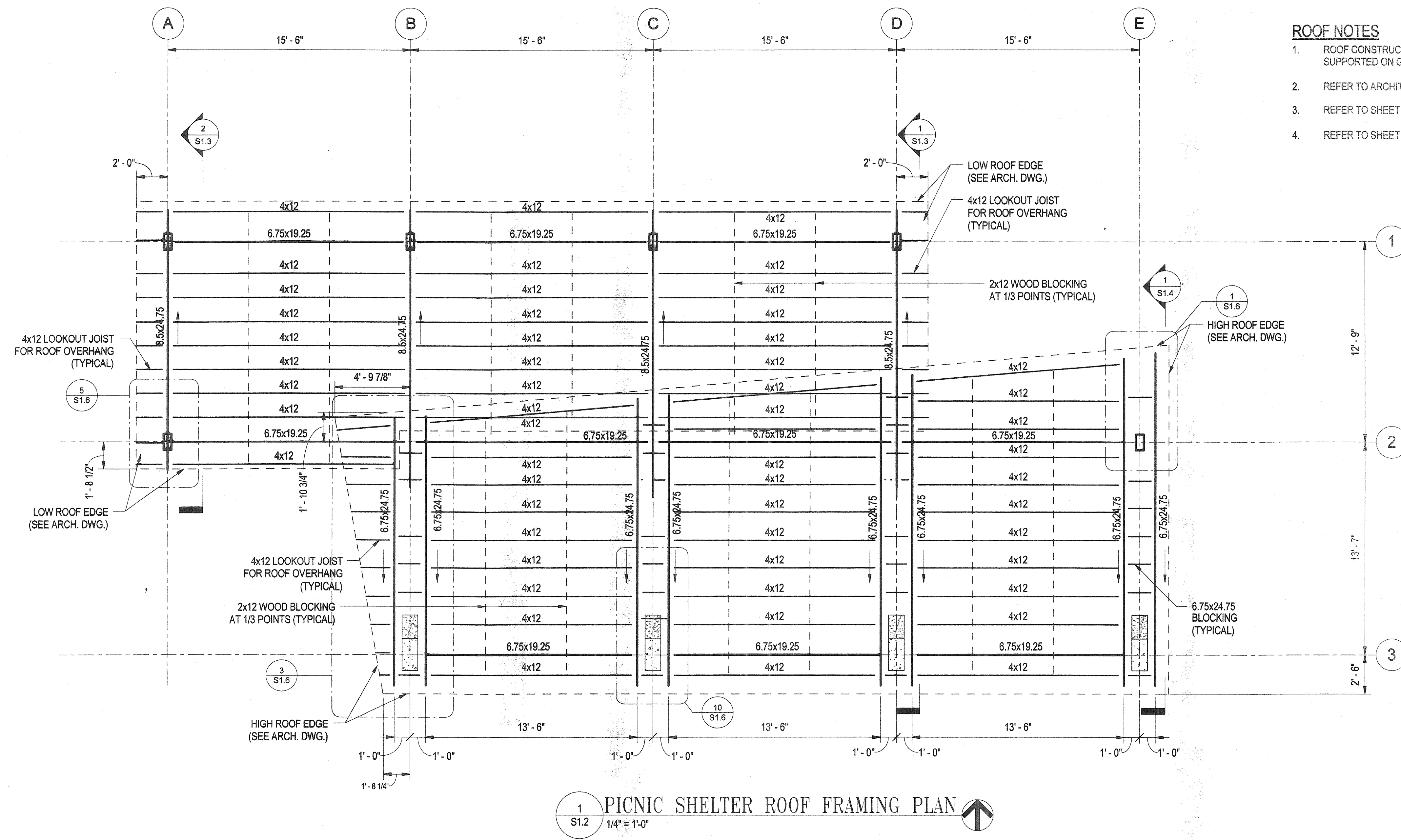
**STRUCTURAL LEGEND**

- F-1 INDICATES A FOOTING TYPE. REFER TO FOOTING SCHEDULE ON THIS SHEET.
- P-1 INDICATES A PEDESTAL TYPE. REFER TO PEDESTAL SCHEDULE ON THIS SHEET.



5 SECTION  
 S1.1 1/2" = 1'-0"

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**ROOF NOTES**

1. ROOF CONSTRUCTION CONSISTS OF 2" TONGUE AND GROOVE WOOD DECKING SUPPORTED ON GLUE LAMINATED LUMBER (GLULAM) GIRDERS, AND WOOD BEAMS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL CONSTRUCTION DETAILS.
3. REFER TO SHEET S0.1 FOR STRUCTURAL NOTES, LOADS, STANDARDS AND CODES.
4. REFER TO SHEET S0.2 FOR TYPICAL STRUCTURAL DETAILS.

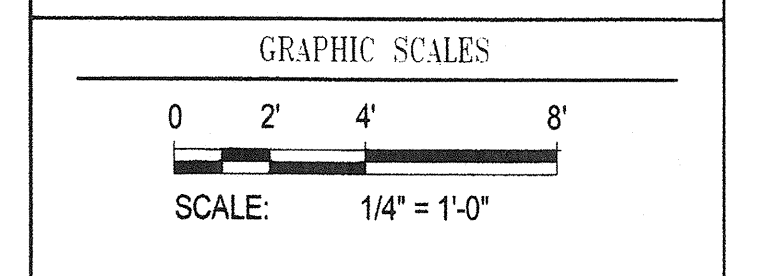
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 ELLICOTT CITY, MD 21043

**WR&A**  
**WHITMAN, REQUARDT & ASSOCIATES, LLP**  
 801 South Caroline Street, Baltimore, Maryland 21231  
 Phone: 410-235-3450 Fax: 410-213-5716

KEY PLAN



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 EXPIRATION DATE: 09/27/2013

BLANDAIR REGIONAL  
 PARK - PHASE 1  
 BUILDING CONTRACT

PICNIC SHELTER - ROOF  
 FRAMING PLAN

Drawing No.  
**S1.2**

Scale: 1/4" = 1'-0"  
 Date: 11/28/2011 Sheet 28 of 55  
 Des: E.F. Drawn: A.A.B. Check: E.F.

**1 PICNIC SHELTER ROOF FRAMING PLAN**  
 S1.2 1/4" = 1'-0"

Request for Information RFI # 057 Date November 6, 2012

Project BLANDAIR PARK, PHASE 1 - BUILDING WORK

To GWVO, Inc. From Ikhana, LLC  
Attention Brian Dunn Contact Bert Bunn  
Phone 410-332-1009 Phone 843-566-3422  
Fax 410-332-0038 Fax 843-566-7841

Question or Concern

By Atlas Welding  
Subject Inner Connection Tube  
Sheet # 3/S1.3 & 1/S2.7 Spec Section 051200

Question The steel girder sleeves for the tapered concrete columns were all fabricated with a 20" diameter, 2" wide, 1/2" thick connection tube. The octagonal plate embedded in all existing tapered columns on both sides protrudes with a 20" diameter, 2" wide, 1/2" thick connection tube. Would it be structurally acceptable to cut off 1" on both connection tubes at octagonal embed and steel girder sleeve then add a 19" diameter, 2" wide, 1/2" thick inner ring with a continuous weld? Please see attached for sketch.

Purpose: Answered  
Question: See attached RFI by Ikhana  
Suggestion: See attached RFI by Ikhana  
Answer: The proposed corrective work is acceptable with the following exceptions:

1. The text of the RFI states that 1" will be removed from each ring. The sketch shows that 1 1/4" will be removed. The sketch shows the correct condition as the 2" dimension requires that 3/4" remain at the rings (1/2" butt weld + 3/4" column ring + 3/4" sleeve ring = 2" total dimension). The contractor is responsible for laying out the work to ensure alignment with all structural members.
2. The cutting of the rings by torch and then ground smooth is acceptable. However the Architect, WRA, and Owner require that the first cut be reviewed and accepted for quality control prior to the installation of the remaining members. Acceptable work may be incorporated into the permanent installation.
3. The surrounding members including but not limited to the Tapered Columns, Glue Laminaed, and Heavy Timber Beams must be fully protected during the course of all corrective work. Any work damaged or otherwise affected by corrective measures will be rejected.
4. The attached sketch needs to be reviewed, stamped, and signed by the Delegated Design engineer and incorporated into the As-built documents. Stamped sketch must be received prior to installation of corrected work in accordance with the Contract Documents.

CC: Walt Lewis(Ikhana)  
Mark Kovach(Howard County Department of Public Works)  
Bill Roessler(Howard County Department of Public Works)  
Eric Feiss(GWVO, Inc./Architects)  
Jim Jett(Whitman, Requardt & Associates, LLP)  
Steve Mack(WRA)



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ENGINEERS - ARCHITECTS - PLANNERS EST. 1915

RESPONSE to R.F.I.

Date Received: 1 August 2012

Date Responded: 2 August 2012

To: Chris Ho

From: Howard Harris

Subject: Shear Plate Connectors at Timber Girders

R.F.I. Forwarded by Contractor: Ikhana, LLC

Work Order Number: 42038-001

Contract Number: N-3102

Project: Blandair Park - Phase 1

R.F.I Number: 038

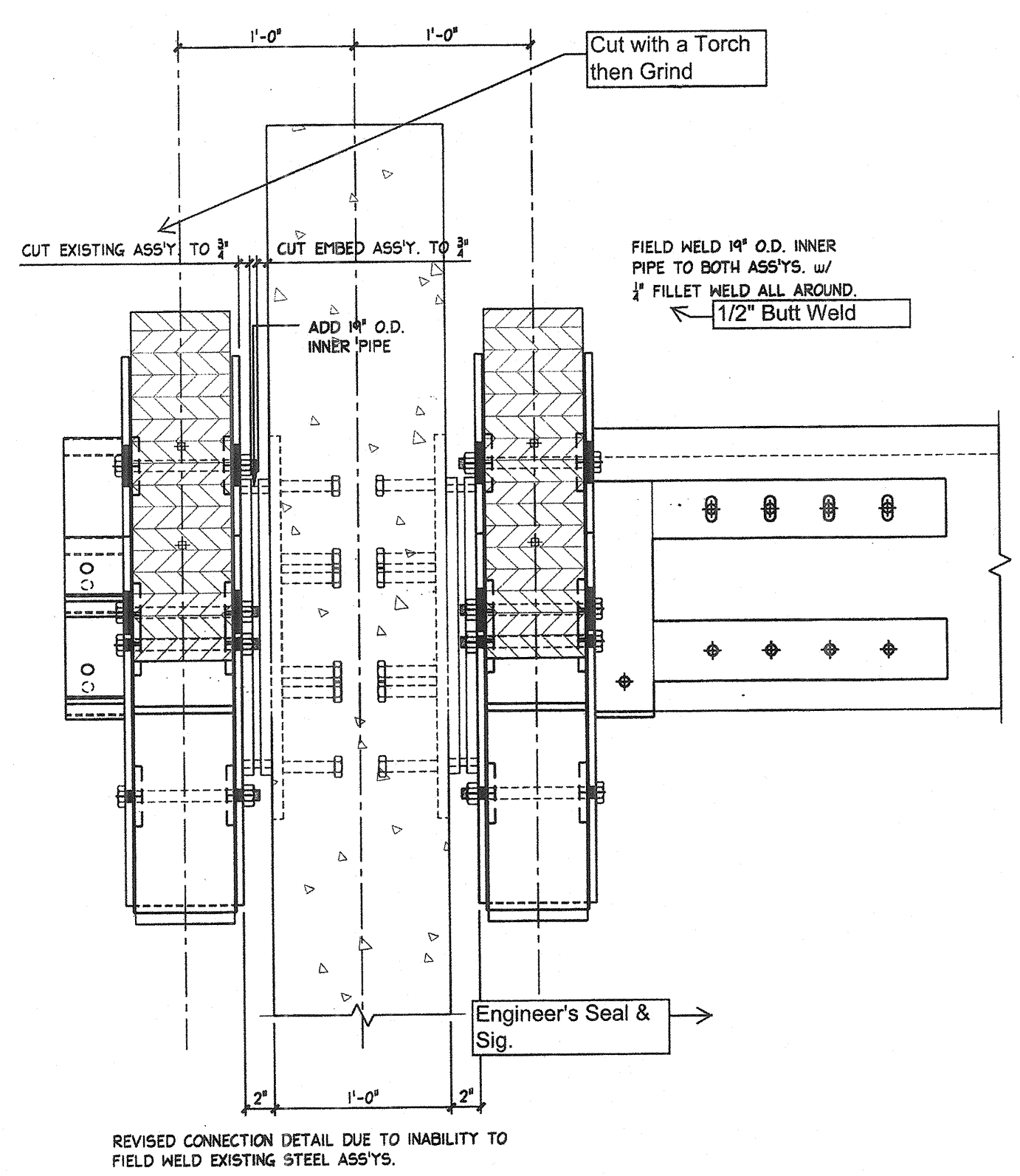
Contractor's Questions:

Can we use shear plates at bolt connections for timber girder to girder sleeve connection?

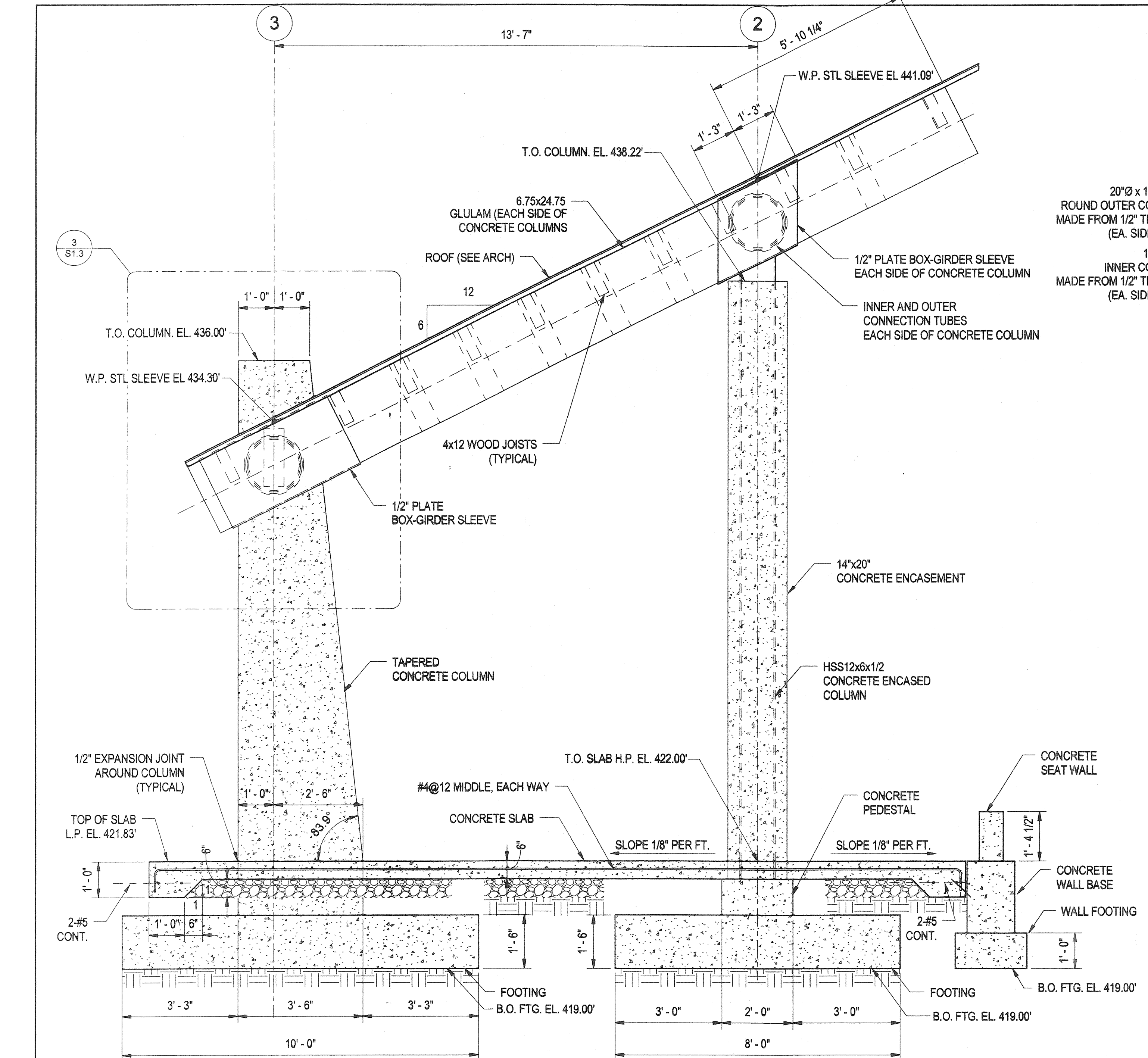
WR&A Responses:

It is acceptable to use shear plates at the bolted connections for timber girder to girder sleeve connection.

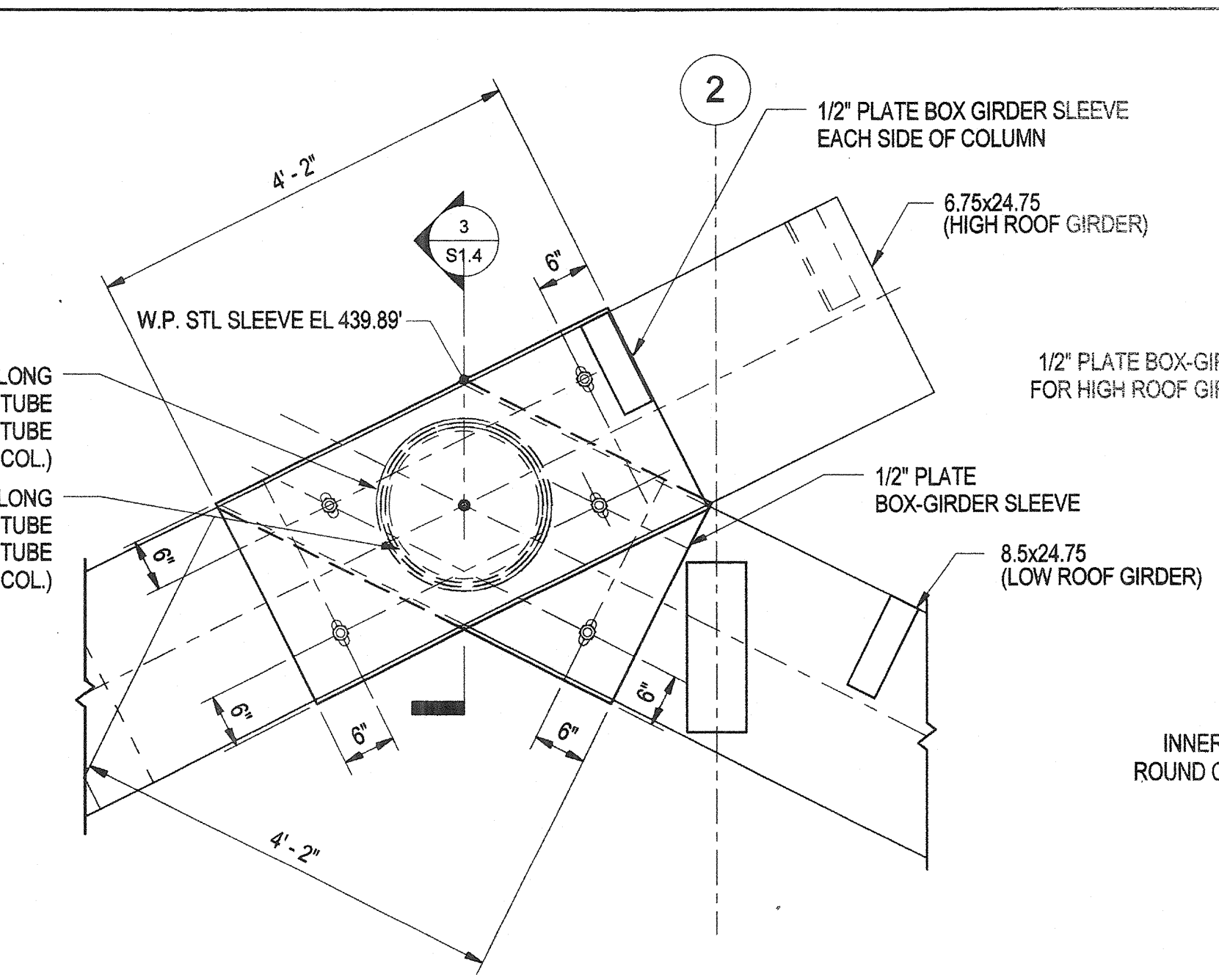
11870 Merchants Walk, Suite 100, Newport News, Virginia 23606 www.wrallp.com Phone: 757-599-5101 Fax: 757-599-5320  
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Blacksburg, VA - Fairfax, VA - Lynchburg, VA - Newport News, VA - Richmond, VA  
C:\Users\Bert\Desktop\38-RFI-038 Shear Plate Connector at Timber Girders - Response.docx



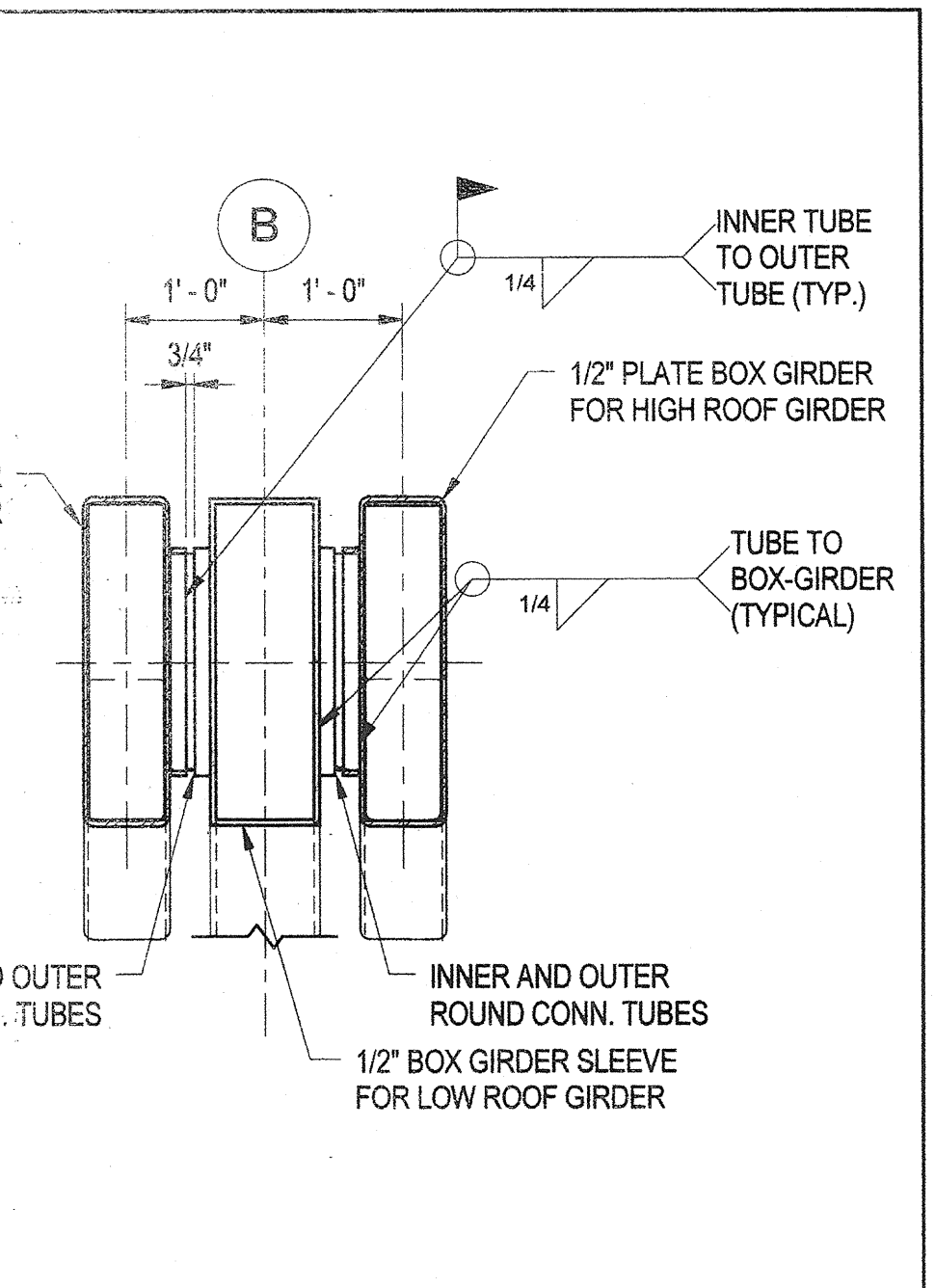




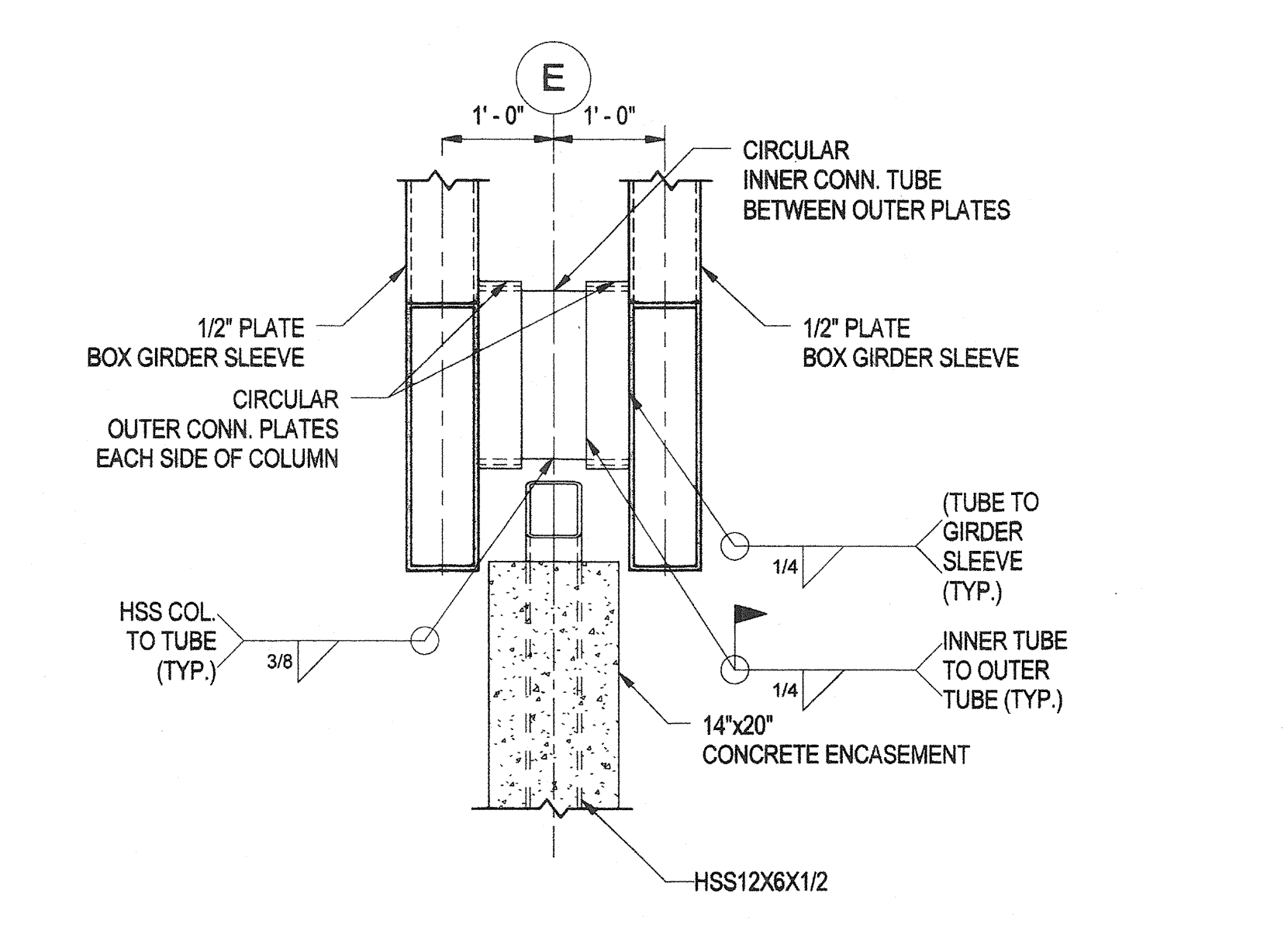
1 SECTION  
S1.4 1/2" = 1'-0"



2 DETAIL  
S1.4 3/4" = 1'-0"



3 SECTION  
S1.4 3/4" = 1'-0"

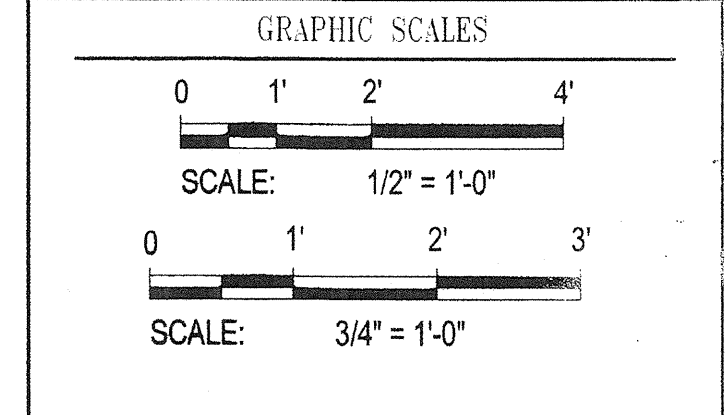
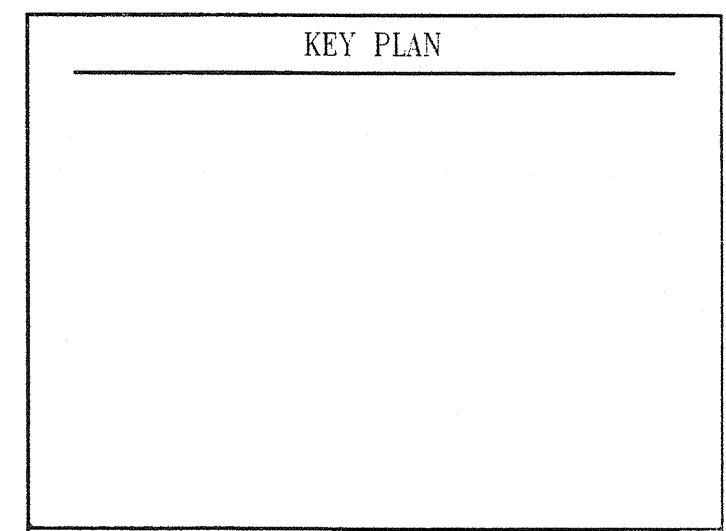


4 SECTION  
S1.4 3/4" = 1'-0"

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801 South Caroline Street, Baltimore, Maryland 21231  
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*James A. Massey*

BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

PICNIC SHELTER SECTIONS  
Drawing No. S1.4  
Scale: As indicated  
Date: 11/28/2011 Sheet 30 of 55  
Des: E.F. Drawn: A.A.B. Check: E.F.

**NOTE**  
1. ALL GLULAM GIRDERS SHALL BE SECURED TO THE BOX-GIRDER SLEEVES WITH 1-INCH DIAMETER STAINLESS STEEL THRU BOLTS.  
2. ALL CONNECTION DETAILS SHOWN ON THIS SHEET CAN BE USED AT OTHER LOCATIONS WITH SIMILAR CONDITIONS AND MEMBER SIZES.

11/10/2011 11:13:01 AM N:\2038-001\CADD\Struct\2038-001\_Picnic\_Shelter.rvt

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 9250 BENDIX ROAD  
 ELLICOTT CITY, MD 21043

**WR&A**  
 WHITMAN, REQUARDT & ASSOCIATES, LLP  
 801 South Caroline Street, Baltimore, Maryland 21231  
 Phone: 410-255-9450 Fax: 410-243-5716

KEY PLAN

GRAPHIC SCALES

0 1' 2' 4'

SCALE: 1/2" = 1'-0"

0 1' 2' 3'

SCALE: 3/4" = 1'-0"

0 6" 1' 2'

SCALE: 1" = 1'-0"

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*James W. ...*

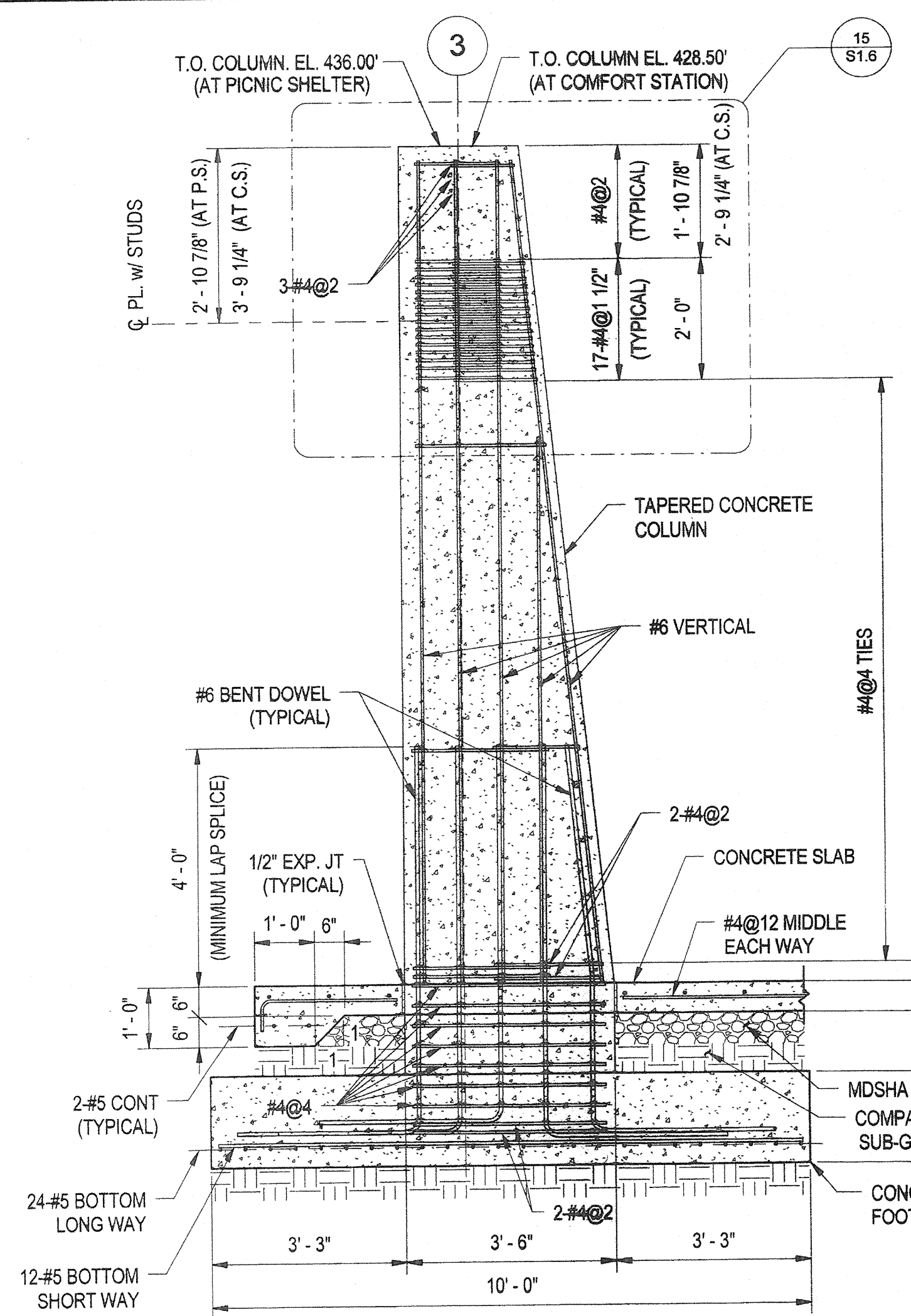
BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

PICNIC SHELTER FOUNDATION SECTIONS & DETAILS

Drawing No.

**S1.5**

Scale: As indicated  
 Date: 11/28/2011 Sheet 31 of 37  
 Des: E.F. Drawn: A.A.B. Check: E.F.

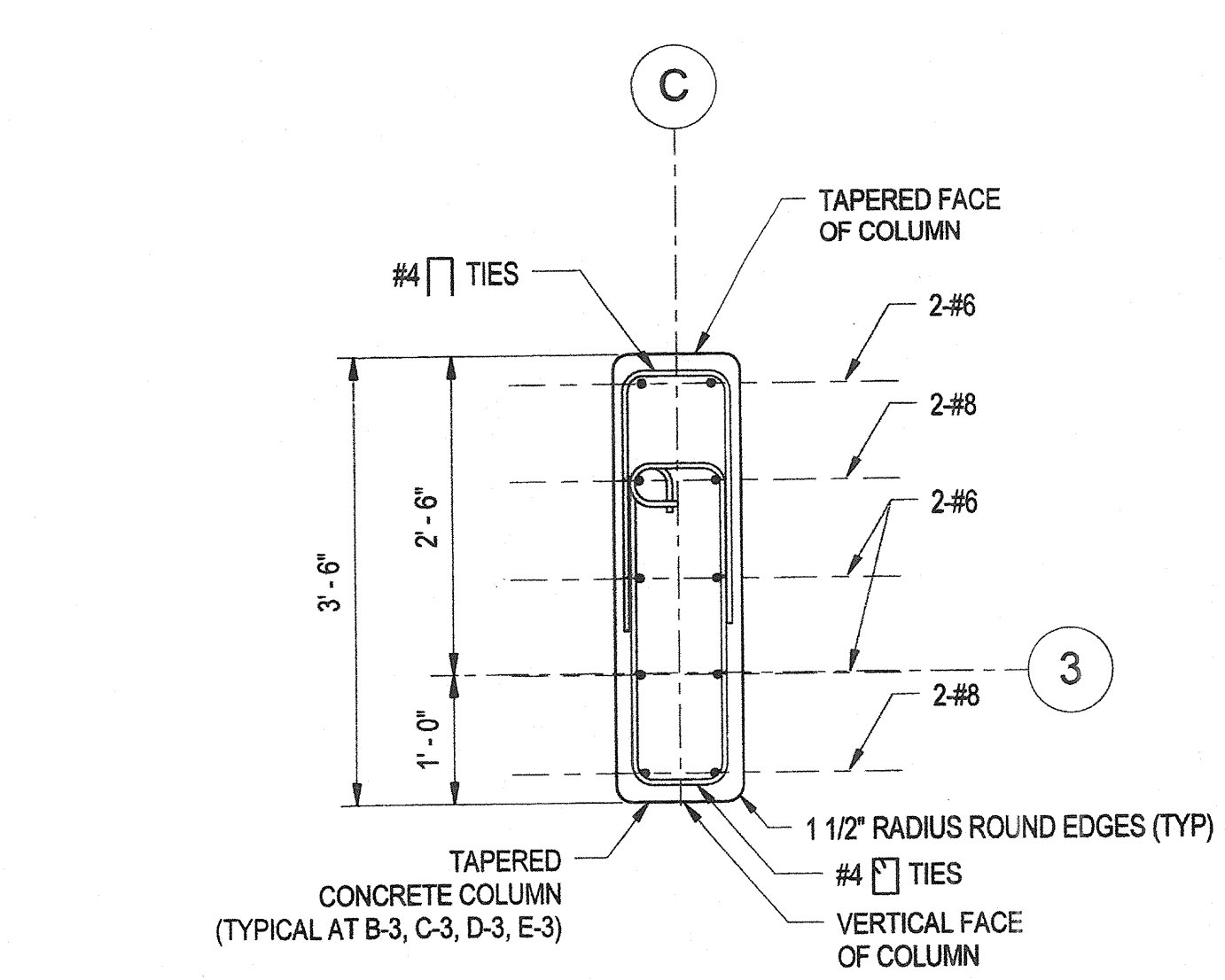


**1 ELEVATION - TAPERED COLUMN**  
 S1.5 1/2" = 1'-0"

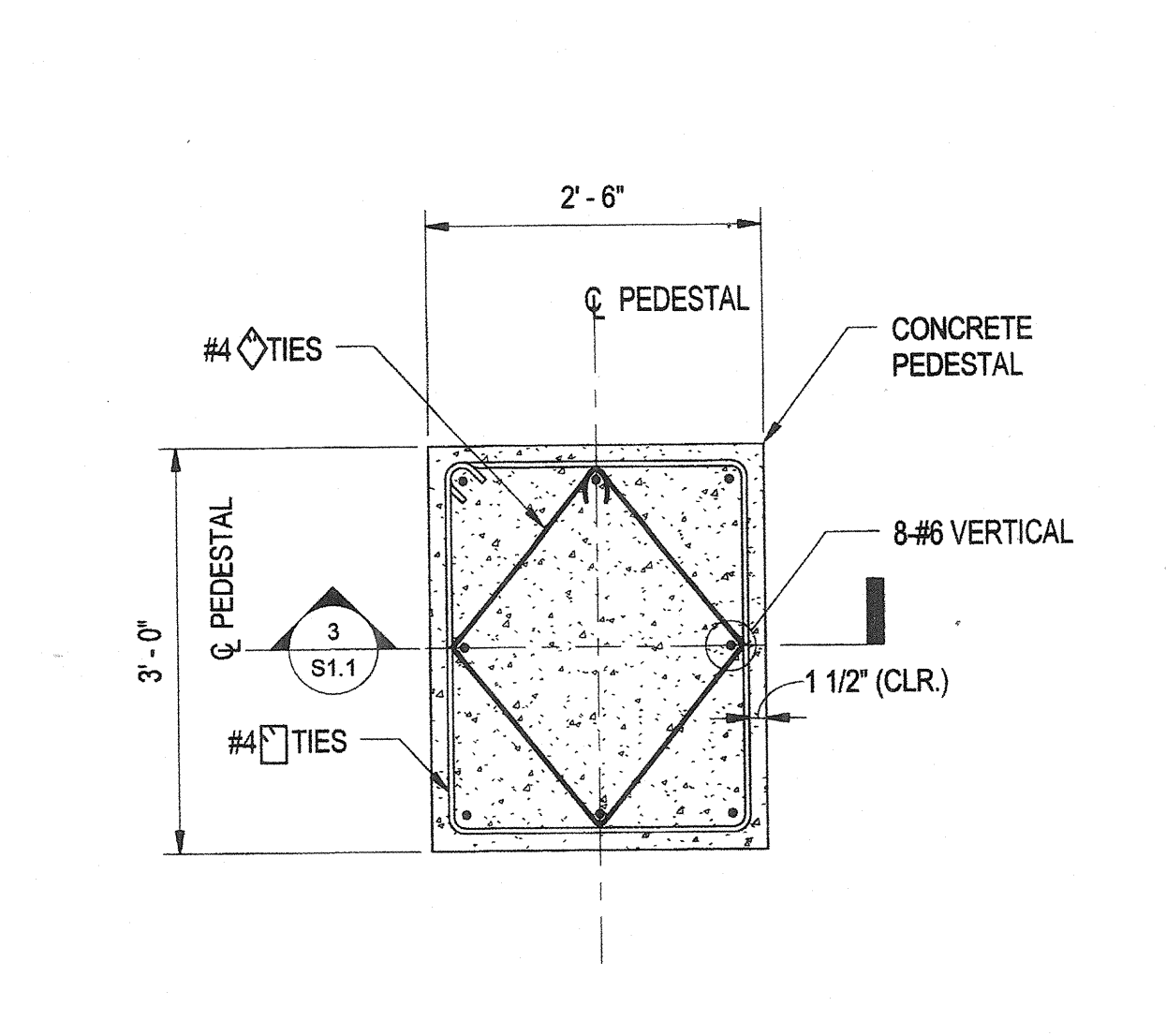
TAPERED COLUMN REINFORCING NOTE:  
 REINFORCING DETAILS FOR THE TAPERED COLUMN ARE SIMILAR FOR BOTH THE PICNIC SHELTER AND THE COMFORT STATION. THE DIMENSIONS ARE DIFFERENT.

REFER TO DETAL 3 ON SHEET S1.3 FOR TOP OF PICNIC SHELTER (P.S.) TAPERED COLUMN ELEVATION DETAILS.

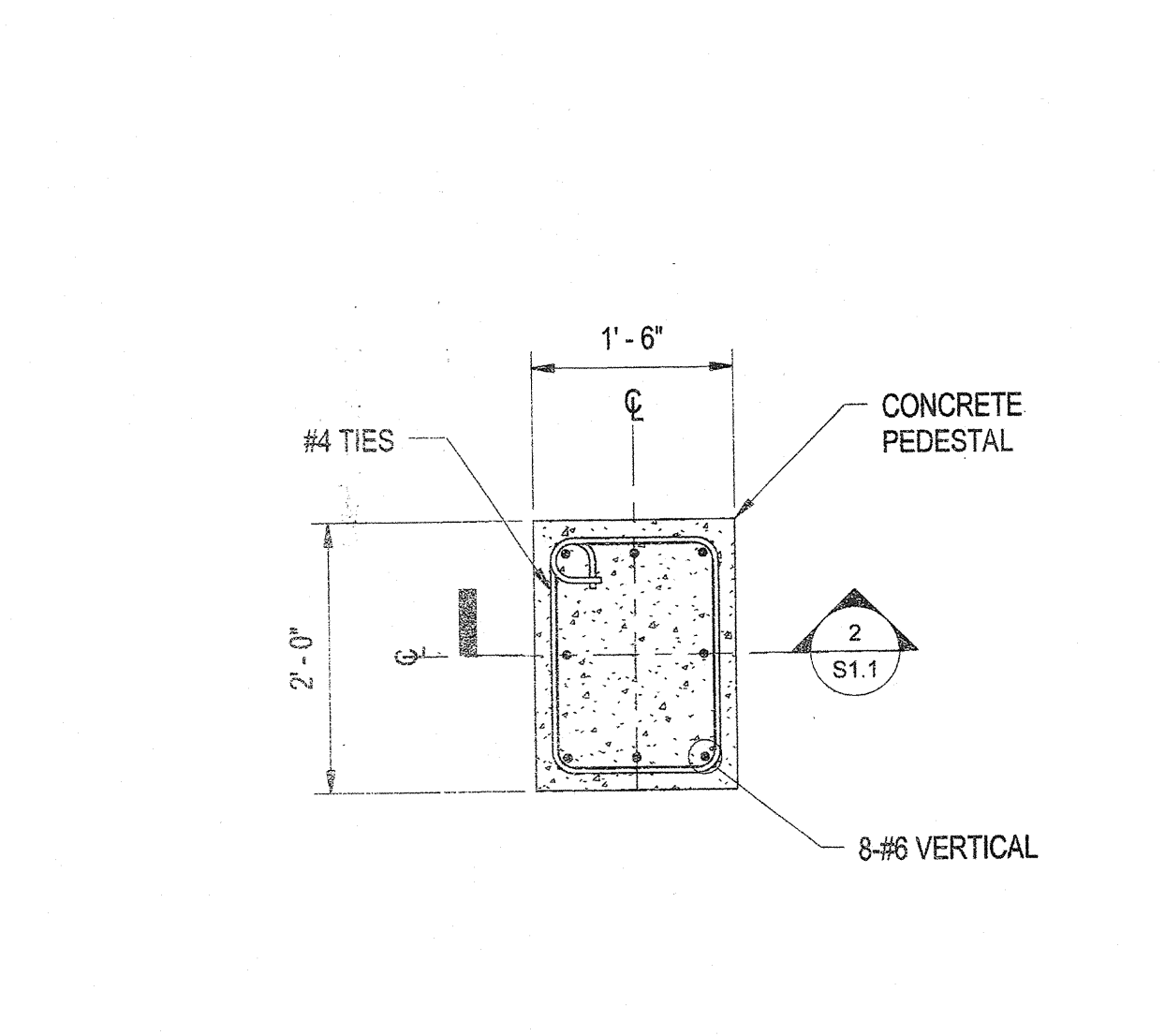
REFER TO DETAL 1 ON SHEET S2.7 FOR TOP OF COMFORT STATION (C.S.) TAPERED COLUMN ELEVATION DETAILS.



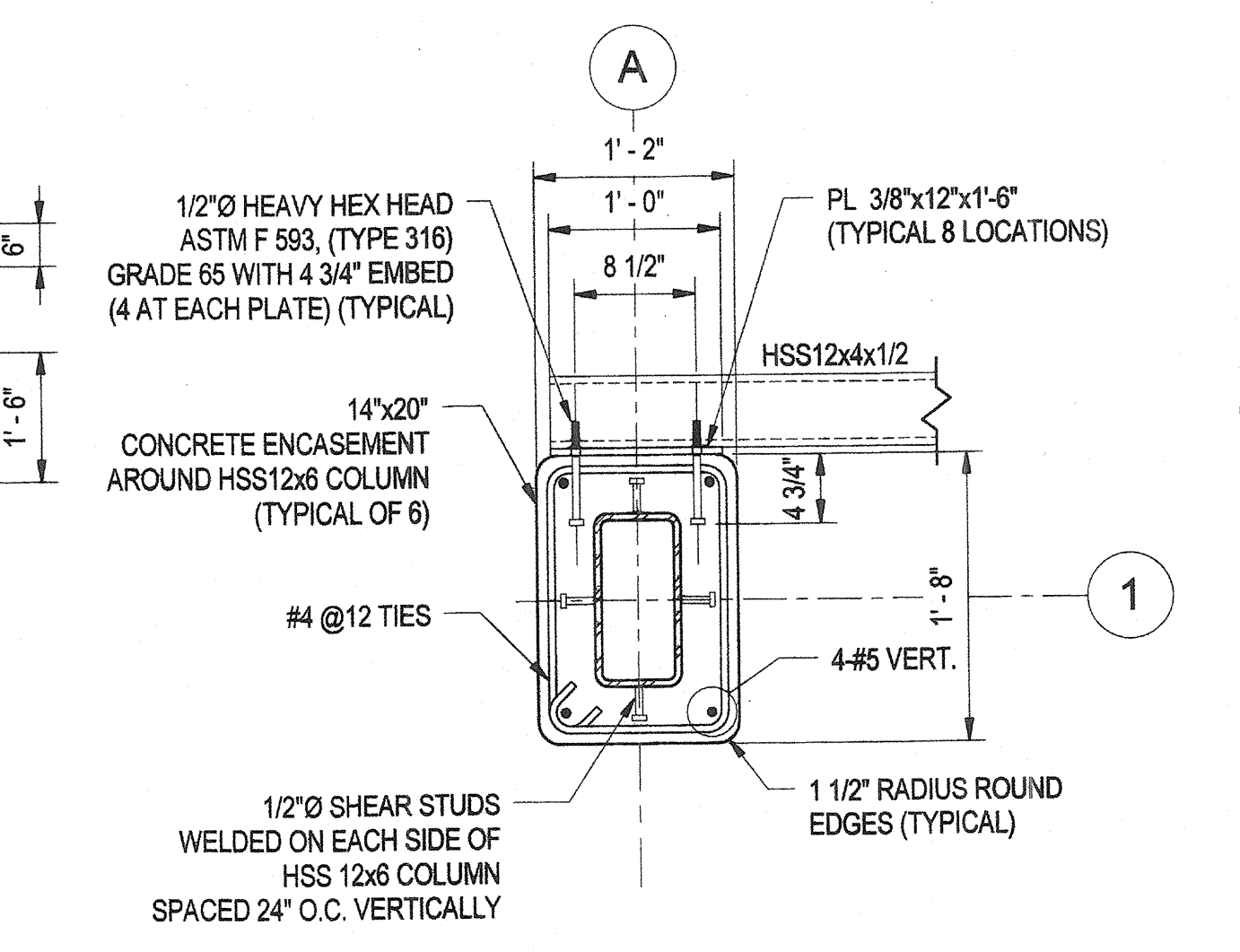
**2 TAPERED COLUMN REINFORCING DETAIL**  
 S1.5 3/4" = 1'-0"



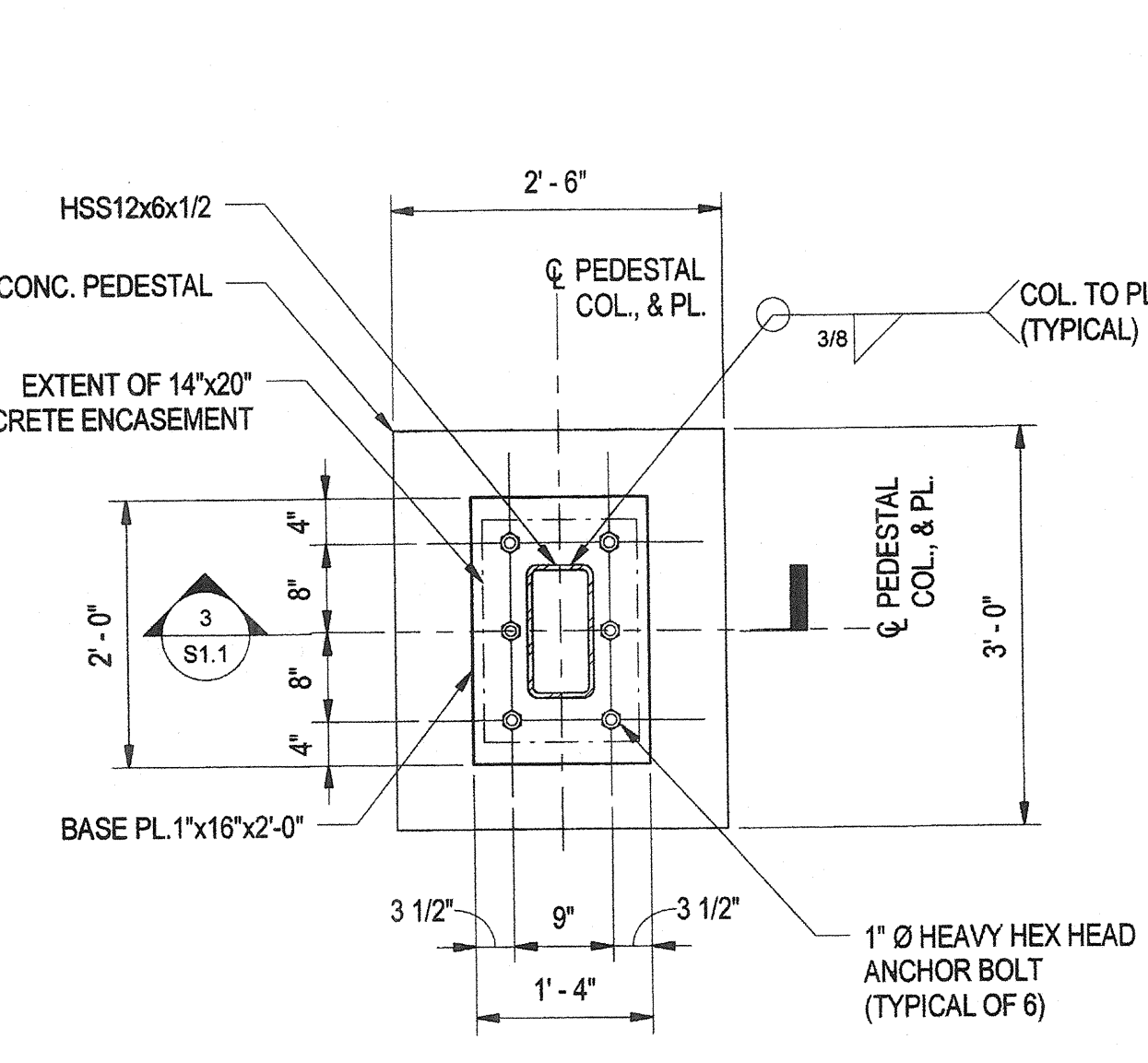
**3 PEDESTAL (P-1) REINFORCING DETAIL**  
 S1.5 3/4" = 1'-0"



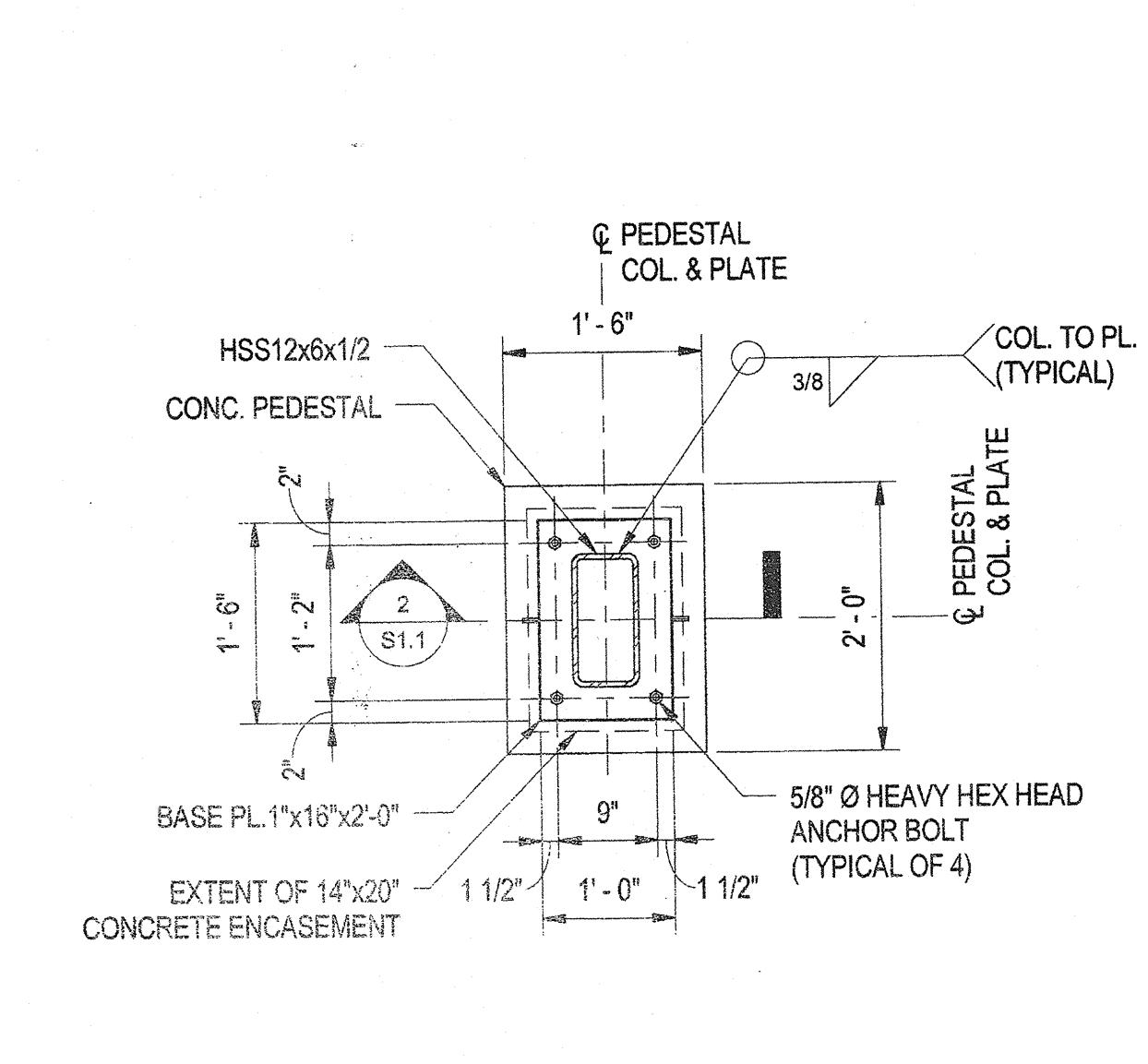
**4 PEDESTAL (P-2) REINFORCING DETAIL**  
 S1.5 3/4" = 1'-0"



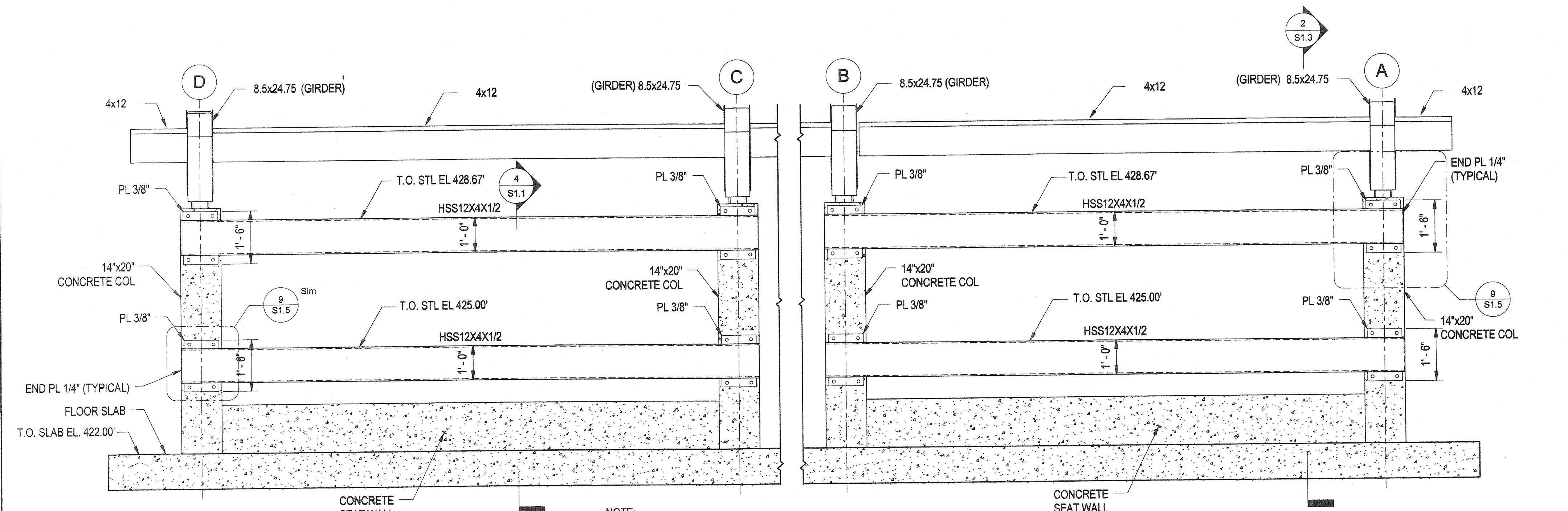
**5 TYPICAL CONCRETE ENCASED COLUMN DETAIL**  
 S1.5 1" = 1'-0"



**6 BASE PLATE DETAIL AT PEDESTAL P-1**  
 S1.5 3/4" = 1'-0"

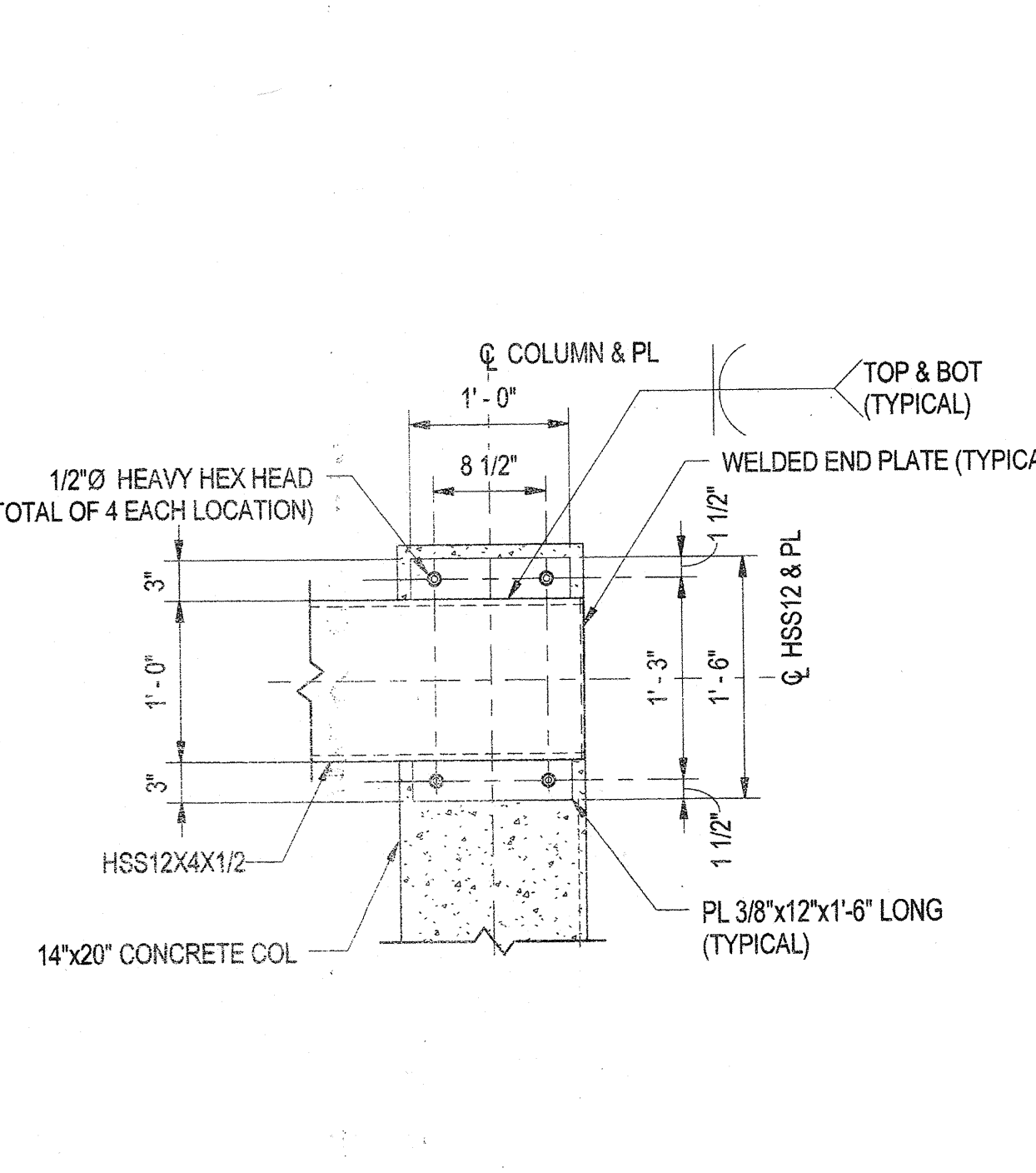


**7 BASE PLATE DETAIL AT PEDESTAL P-2**  
 S1.5 3/4" = 1'-0"



**8 ELEVATION - STEEL SIDING SUPPORT GIRT**  
 S1.5 1/2" = 1'-0"

NOTE:  
 REFER TO ARCHITECTURAL SHEET A3.2 FOR STEEL SIDING PANELS LAYOUT.



**9 DETAIL**  
 S1.5 1" = 1'-0"

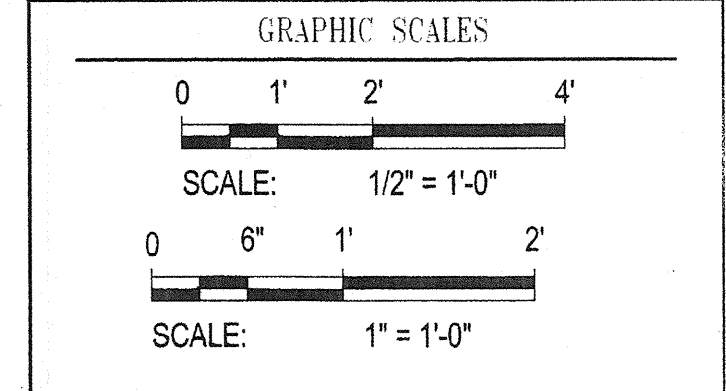
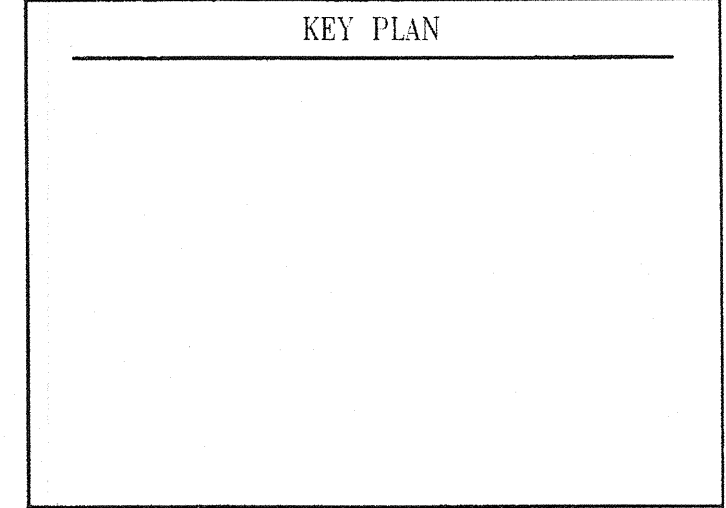
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**WR&A**  
**WHITMAN, REQUARDT & ASSOCIATES, LLP**  
 801 South Caroline Street, Baltimore, Maryland 21231  
 Phone: 410-235-3150 Fax: 410-235-5716



SIGNATURE

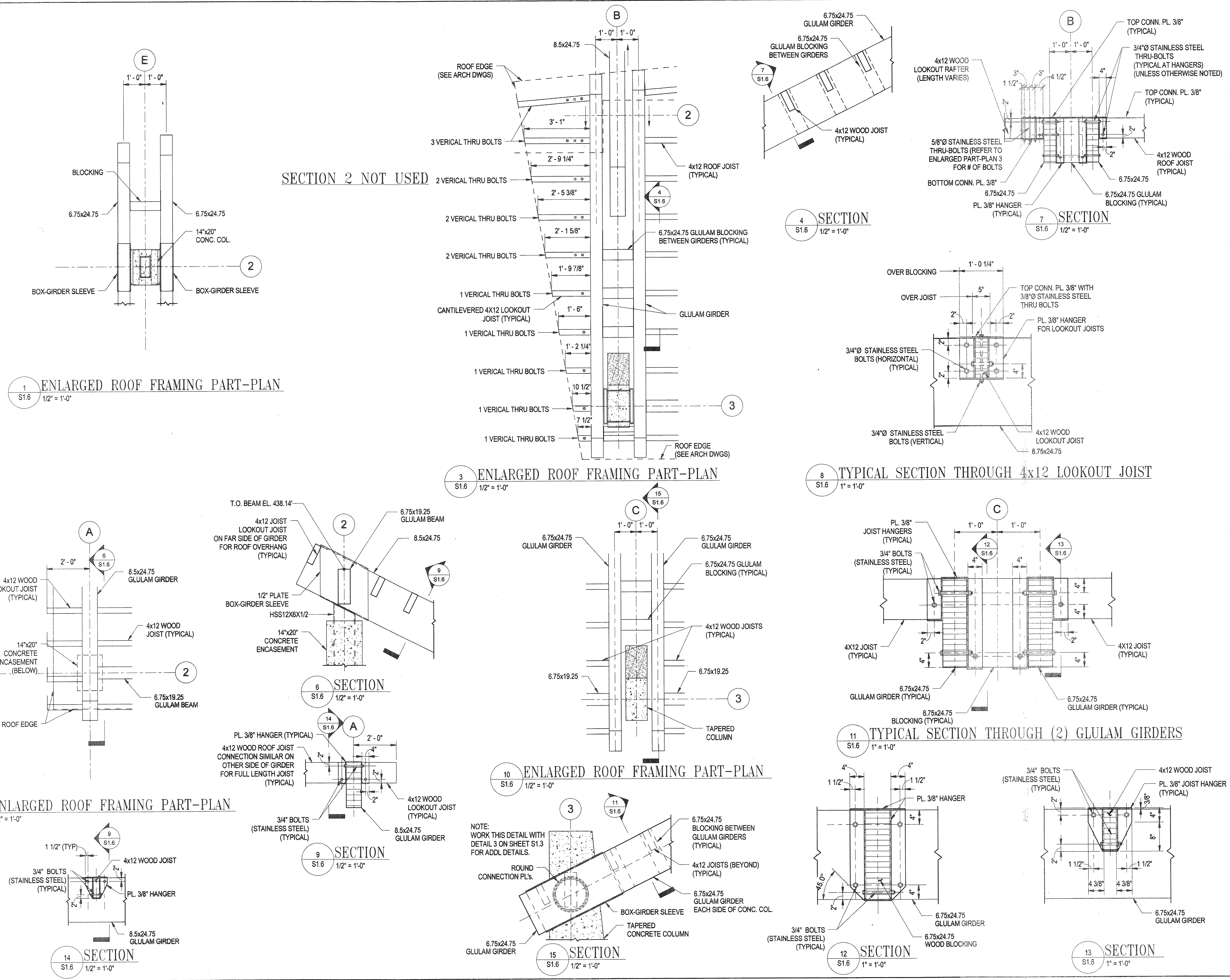
Daniel Campese  
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**BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT**

PICNIC SHELTER ROOF FRAMING SECTIONS & DETAILS

Drawing No.  
**S1.6**

Scale: As indicated  
 Date: 11/28/2011 Sheet 32 of 55  
 Des: E.F. Drawn: A.A.B. Check: E.F.



11/10/2011 11:13:12 AM N:\42038-001\CADD\Struct\42038-001\_Picnic\_Shelter.rvt

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ELLICOTT CITY, MD 21043

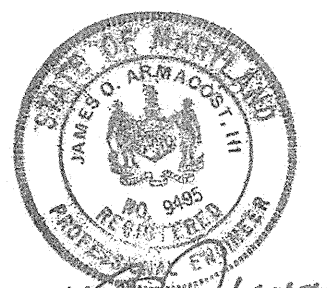


**WHITMAN, REQUARDT  
& ASSOCIATES, LLP**  
801 South Caroline Street, Baltimore, Maryland 21231  
Phone: 410-253-3450 Fax: 410-253-3216

KEY PLAN

GRAPHIC SCALES

SIGNATURE



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THE STATE OF MARYLAND. LICENSE NO. 9499  
EXPIRATION DATE: 09/27/2013

BLANDAIR REGIONAL  
PARK - PHASE 1  
BUILDING CONTRACT

PICNIC SHELTER 3D  
PERSPECTIVE VIEWS

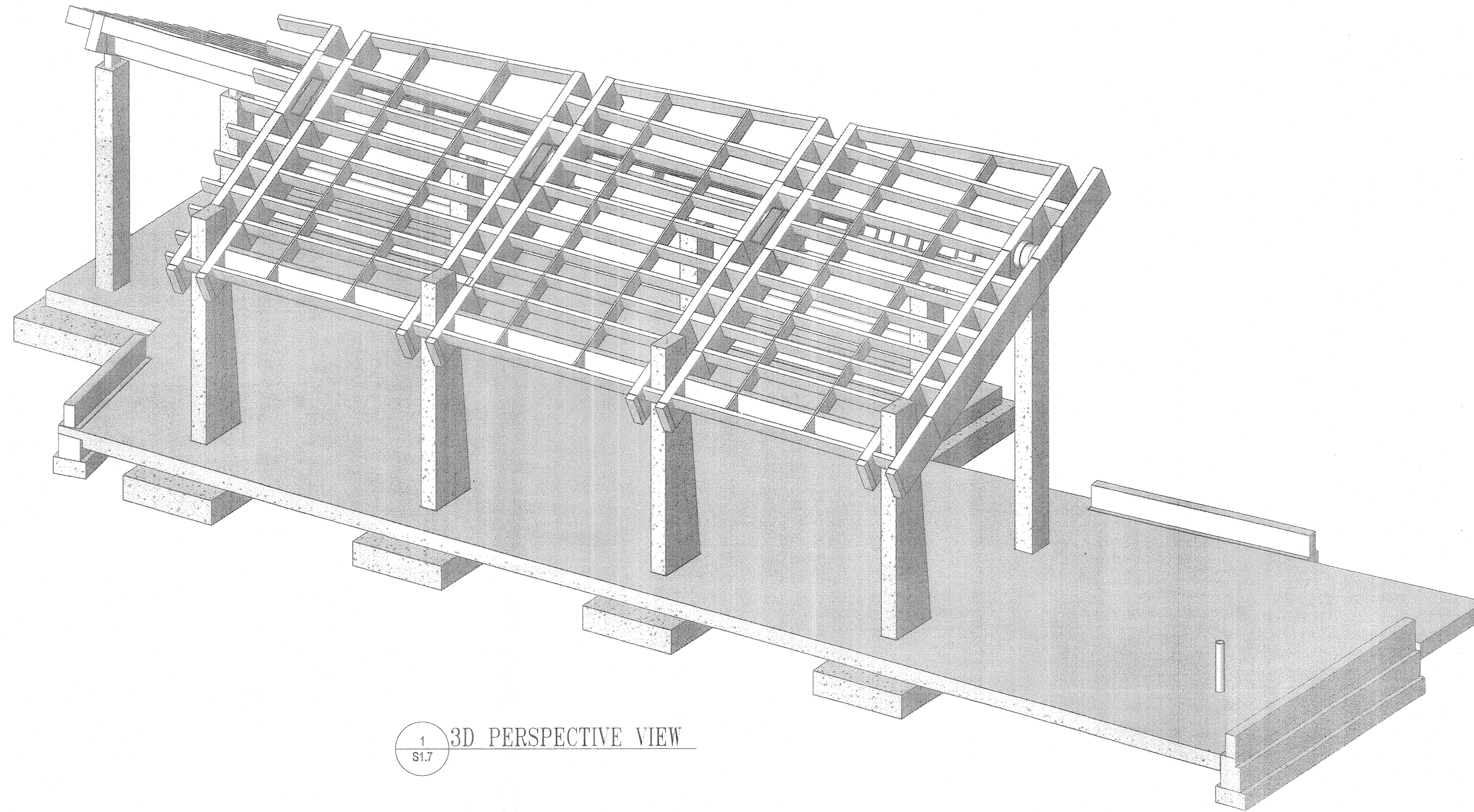
Drawing No.

**S1.7**

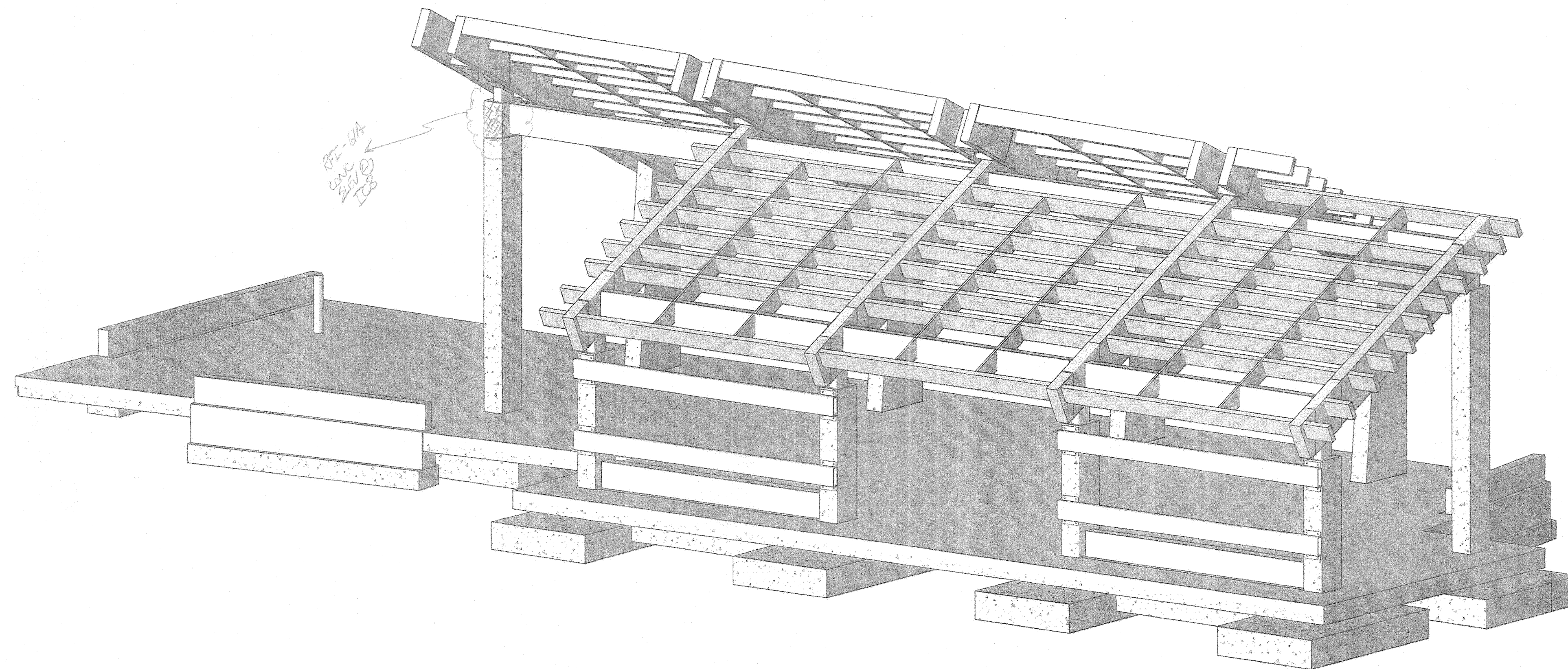
Scale: NOT TO SCALE

Date: 11/28/2011 Sheet 33 of 55

Des: E.F. Drawn: A.A.B. Check: E.F.



1 3D PERSPECTIVE VIEW  
S1.7



2 3D PERSPECTIVE VIEW  
S1.7



Project BLANDAIR PARK, PHASE 1 - BUILDING WORK

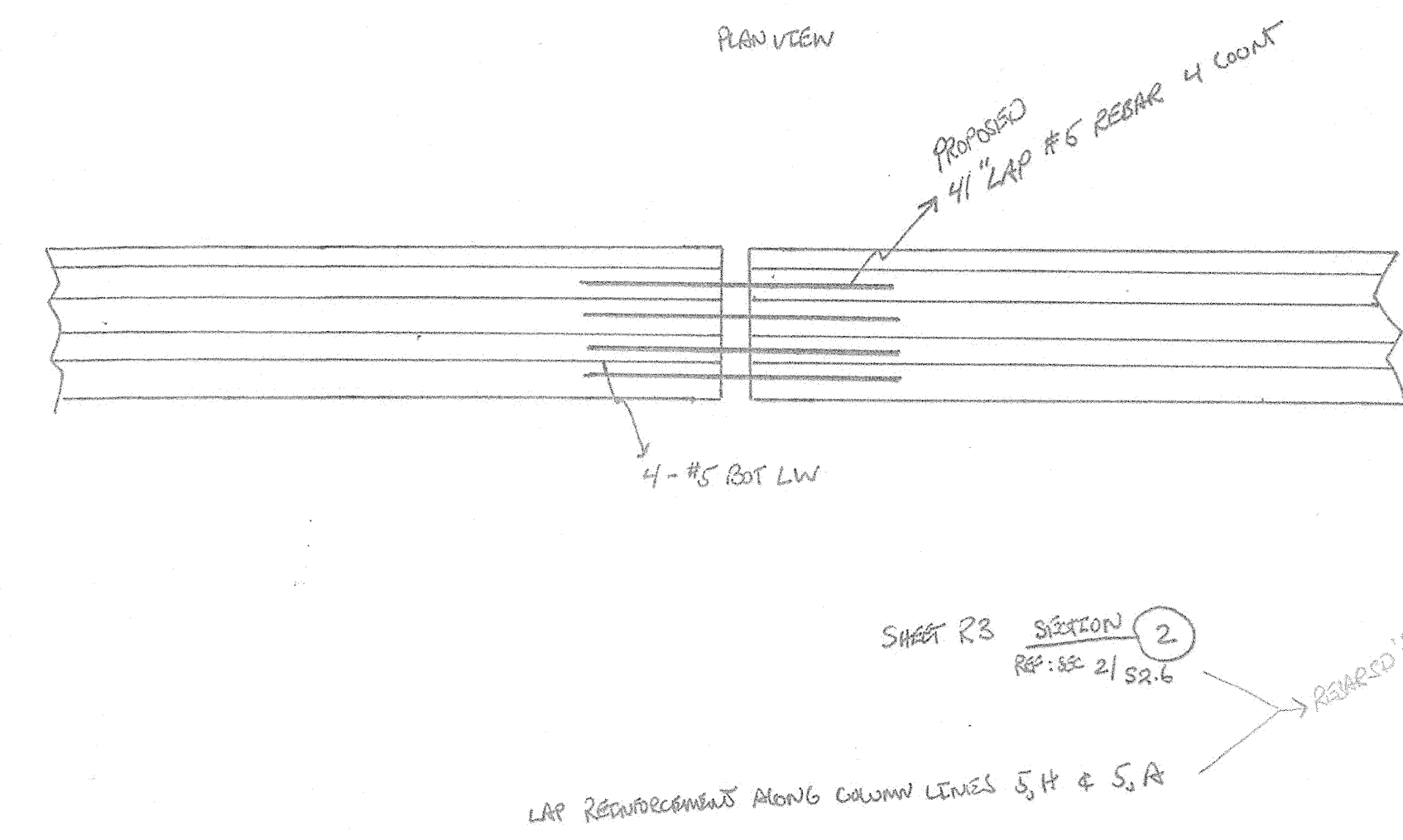
To GWWO, Inc. From Ikhana, LLC  
 Attention Eric Feiss Contact Marion Davis  
 Phone 410-332-1009 Phone 843-566-7800  
 Fax 410-332-0038 Fax 843-566-7841

Question or Concern

By D.A Drenner  
 Subject Column Footing Separate Pours  
 Sheet # Spec Section

Question We would like to excavate, set-up, inspect, and pour footing sections in a single day. We only want to open up or leave exposed to weather what we can accomplish in one day. Therefore, we would like to pour the footings in two separate pours for each building creating a cold joint in the footings. Is this acceptable if we add reinforcement at the joint. Please see attached sketch for additional reinforcement.

Suggestion



**WRA Response:**  
 It is acceptable to form a cold joint in the strip footing granted reinforcement is added to dowel the two slab sections together. Adjacent slab sections must allow 3days between pours and be poured against each other so there is no gap between slab sections. Refer to the tension lap splice table on sheet S0.1 for minimum rebar lap lengths.

- CC:
- Bert Bunn(Ikhana)
  - Bill Roessler(Howard County Department of Public Works)
  - Carl Scheffel(Whitman, Requardt & Associates, LLP)
  - Chris Ho(Whitman, Requardt & Associates, LLP)
  - Dan Bennett
  - Mark Kovach(Howard County Department of Public Works)
  - Wayne Chang(Whitman, Requardt & Associates, LLP)
  - Howard Harris(Whitman, Requardt & Associates, LLP)

Description of Contents

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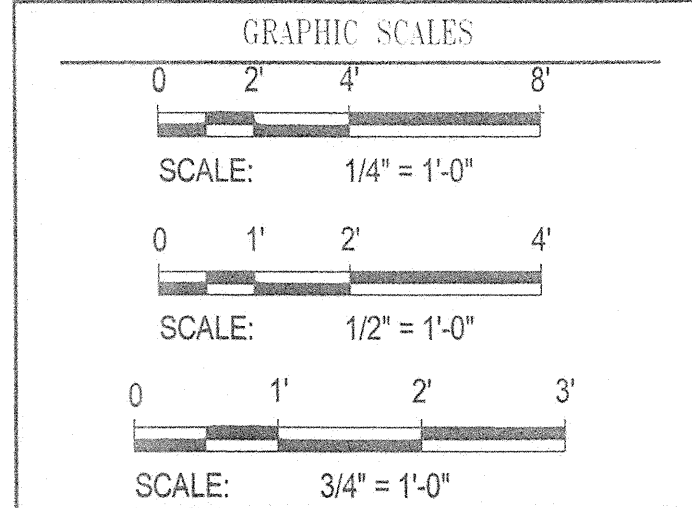
REVISIONS	
BID SET	11/28/11

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 7120 OAKLAND MILLS ROAD  
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DEPARTMENT OF PUBLIC WORKS  
 9250 BENDIX ROAD  
 ELLICOTT CITY, MD 21043

**WR&A**  
 WHITMAN, REQUARDT & ASSOCIATES, LLP  
 801 South Caroline Street, Baltimore, Maryland 21231  
 Phone: 410-535-3150 Fax: 410-243-5716

KEY PLAN



SIGNATURE

*James C. Amadio*

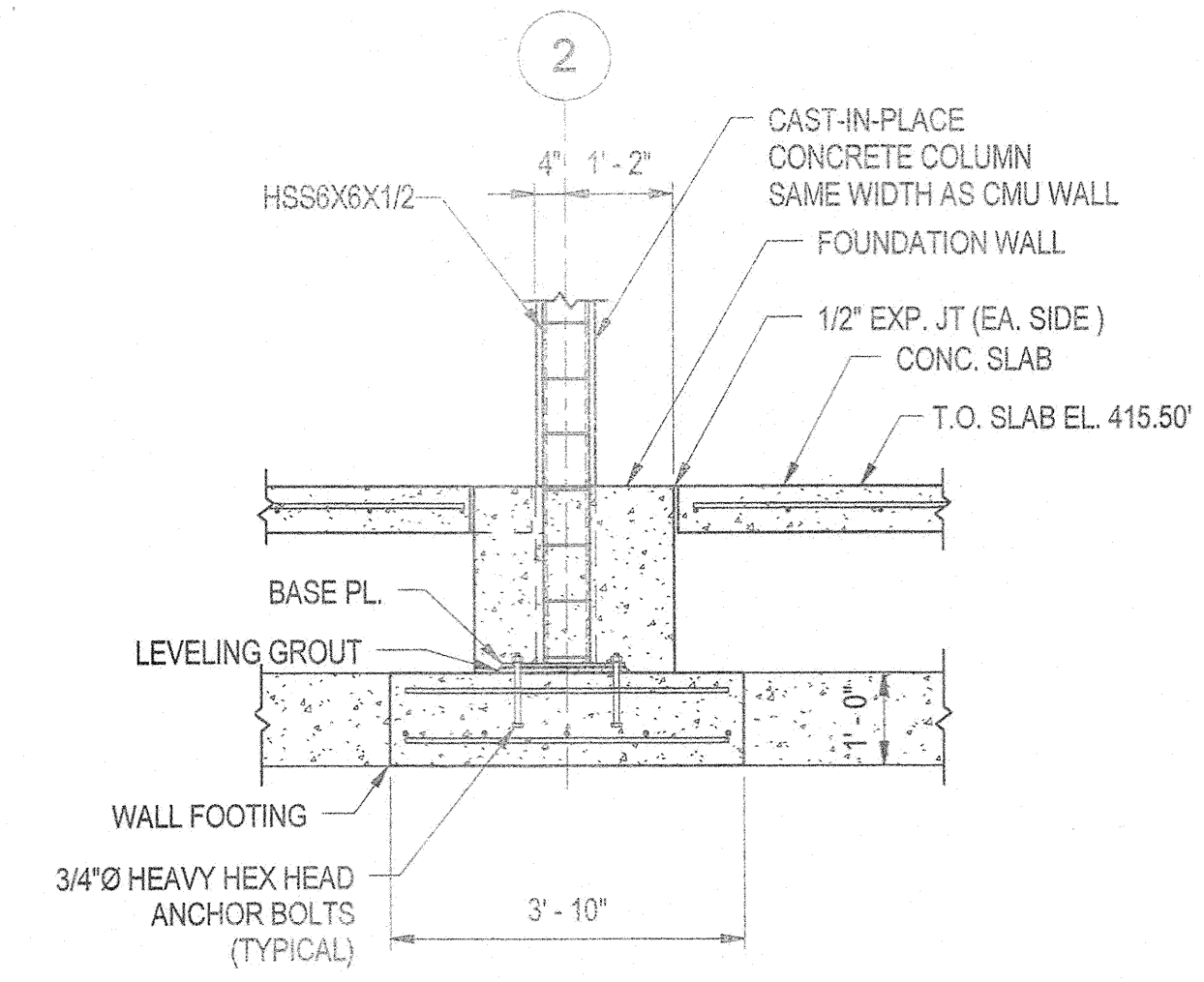
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 EXPIRATION DATE: 09/27/2013

BLANDAIR REGIONAL  
 PARK - PHASE 1  
 BUILDING CONTRACT

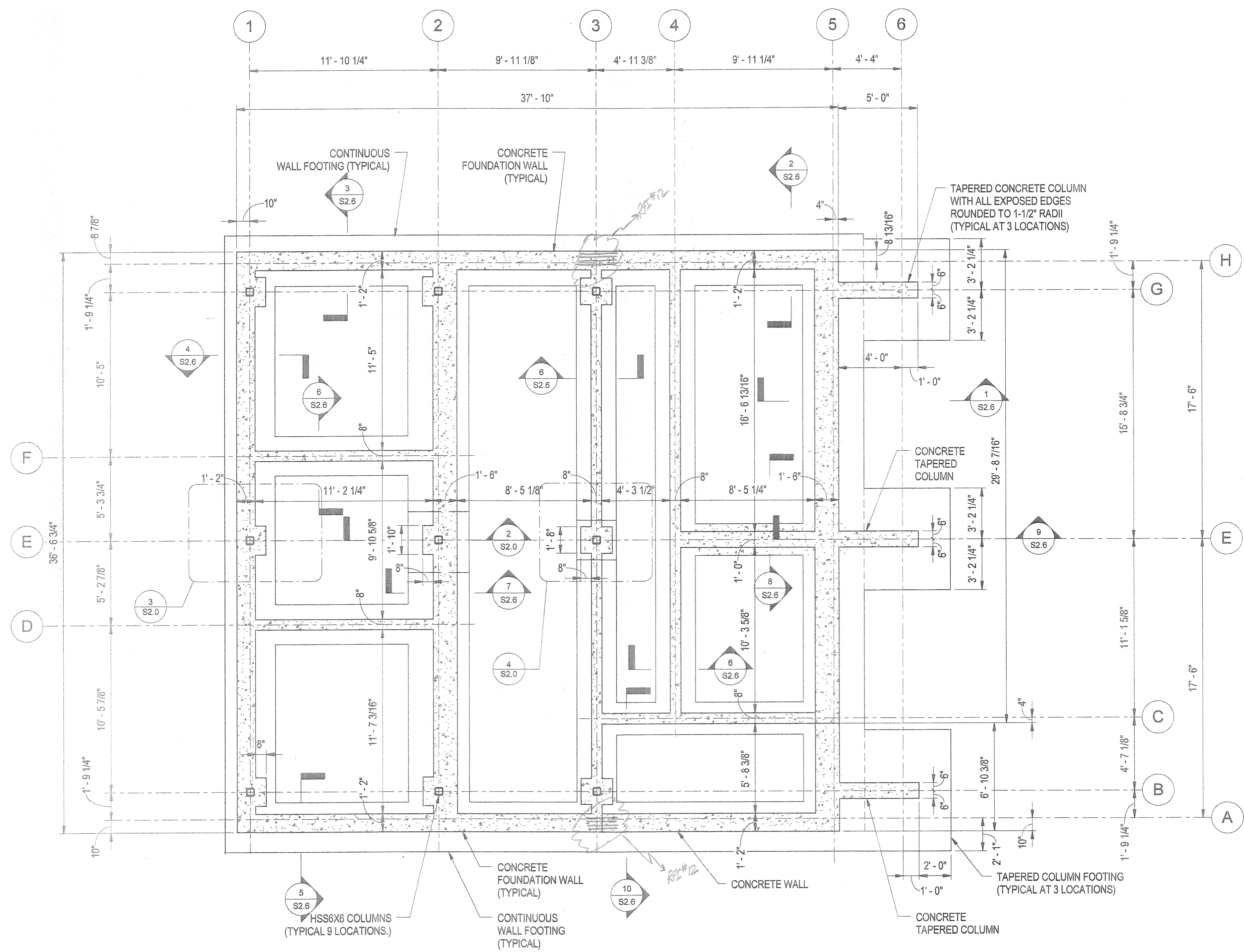
COMFORT STATION  
 FOUNDATION PLAN

Drawing No.  
**S2.0**

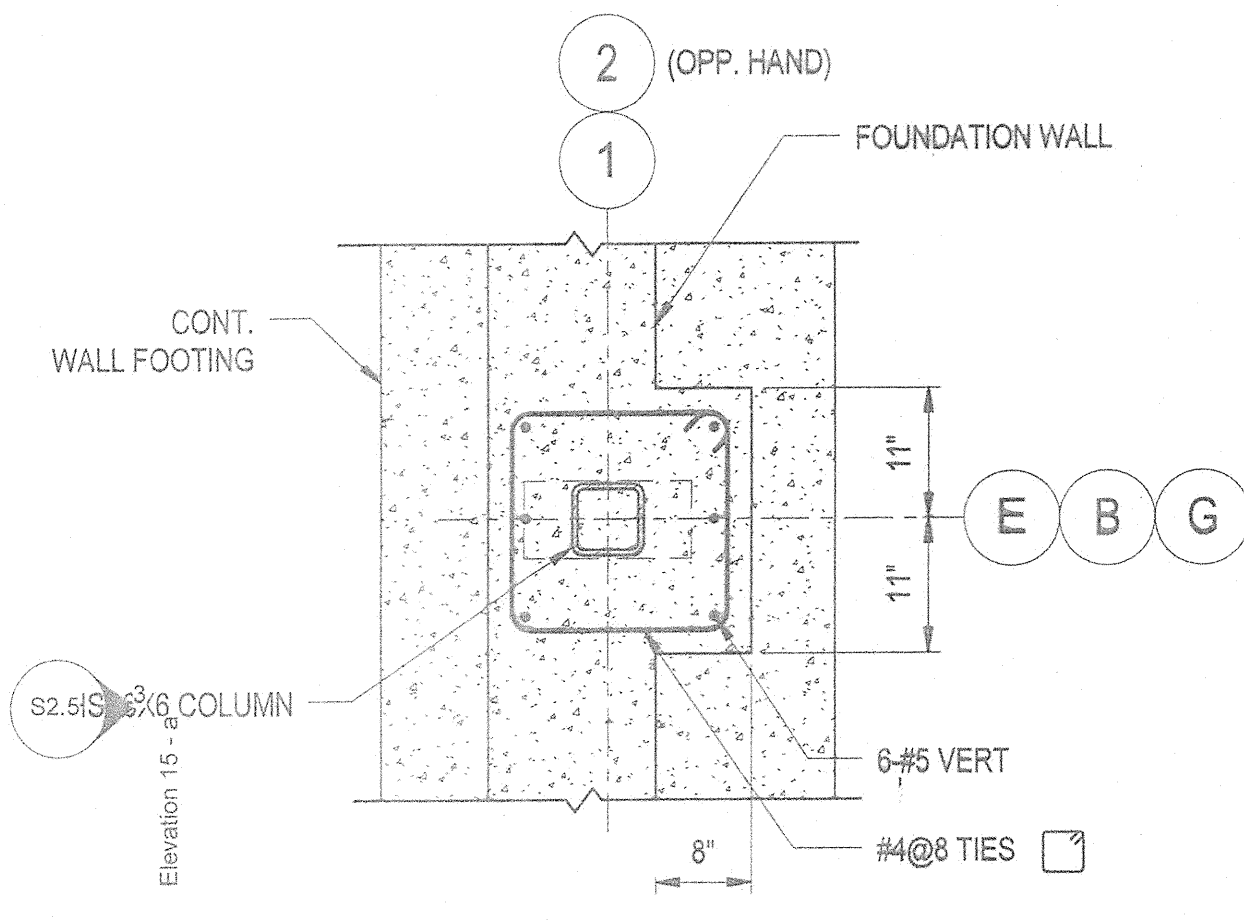
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 Date: 11/28/2011 Sheet 34 of 55  
 Des: E.F. Drawn: A.A.B. Check: E.F.



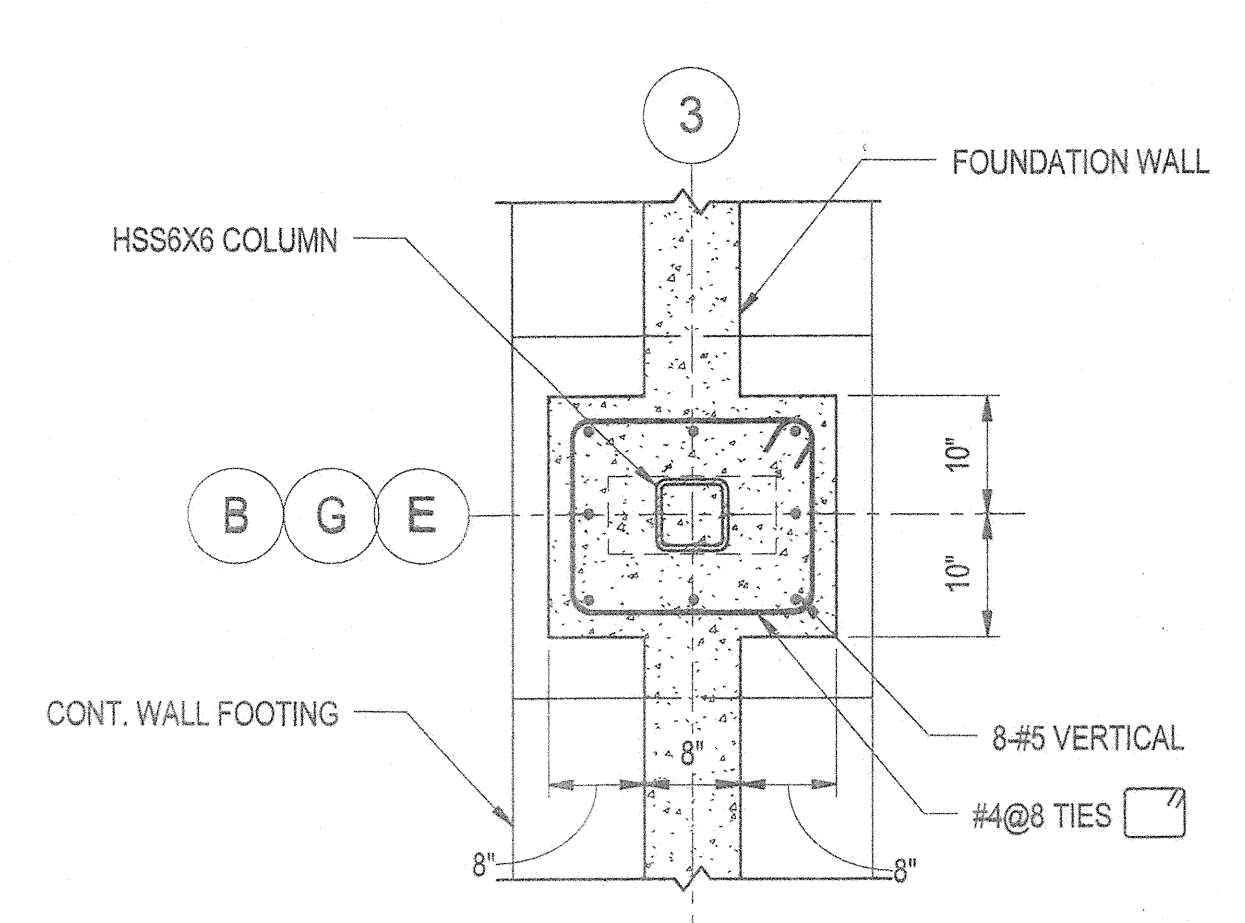
SECTION 2  
 S2.0 1/2" = 1'-0"



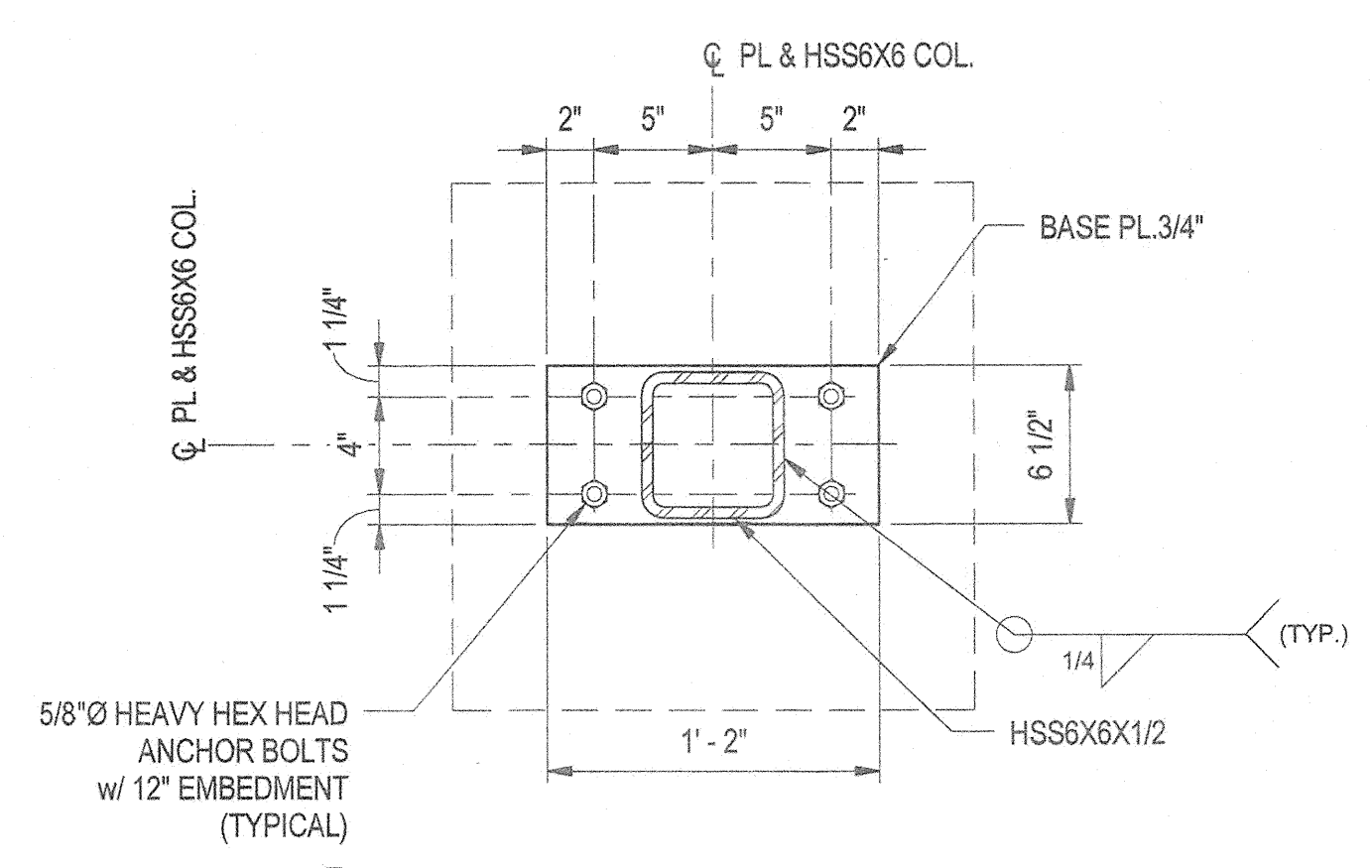
1 COMFORT STATION FOUNDATION PLAN  
 S2.0 1/4" = 1'-0"



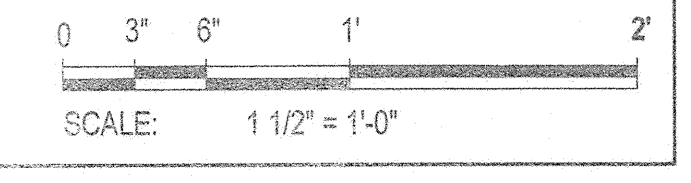
3 COLUMN BASE DETAIL AT 14" WALL  
 S2.0 3/4" = 1'-0"



4 COLUMN BASE DETAIL AT 8" WALL  
 S2.0 3/4" = 1'-0"



5 HSS6X6 BASE PLATE DETAIL  
 S2.0 1 1/2" = 1'-0"



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 11/20/11 10:57:50 AM

**RFI Transmittal**

**RFI ID:** RFI-010  
**Transmittal ID:** 00069  
**Date Sent:** 6/12/2012

**Project:** Blandair Park-Phase I  
**Number:** 0811.1

**To:** Marion Davis  
Ikhona  
2120 Nollette Blvd.  
Suite 106A  
Charleston, SC 29405  
United States  
843-566-7800 (Phone)  
843-566-7841 (Fax)

**From:** Eric Feiss  
GWVO, Inc./Architects  
800 Wyman Park  
Suite 300  
Baltimore, MD 21211  
US  
(410) 332-1009 x1107 (Phone)  
(410) 332-0038 (Fax)

**Subject:** RFI-010 Masonry Anchors

**Via:** Email

**Purpose:** Answered

**Question:** Detail 2/S2.1 Please confirm that anchors and 6" CMU only occur at columns B2 and G2 in the Storage room side of the wall. Please confirm where detail 14/A4.1 is used or referenced.

**Suggestion:**

**Answer:** The cast-in masonry anchors for the 6" CMU is only to be used at columns B2 and G2 on the storage room side. Detail 14/A4.1 is referenced in 1/A1.1 Comfort Station - Floor Plan at columns B2 and G2.

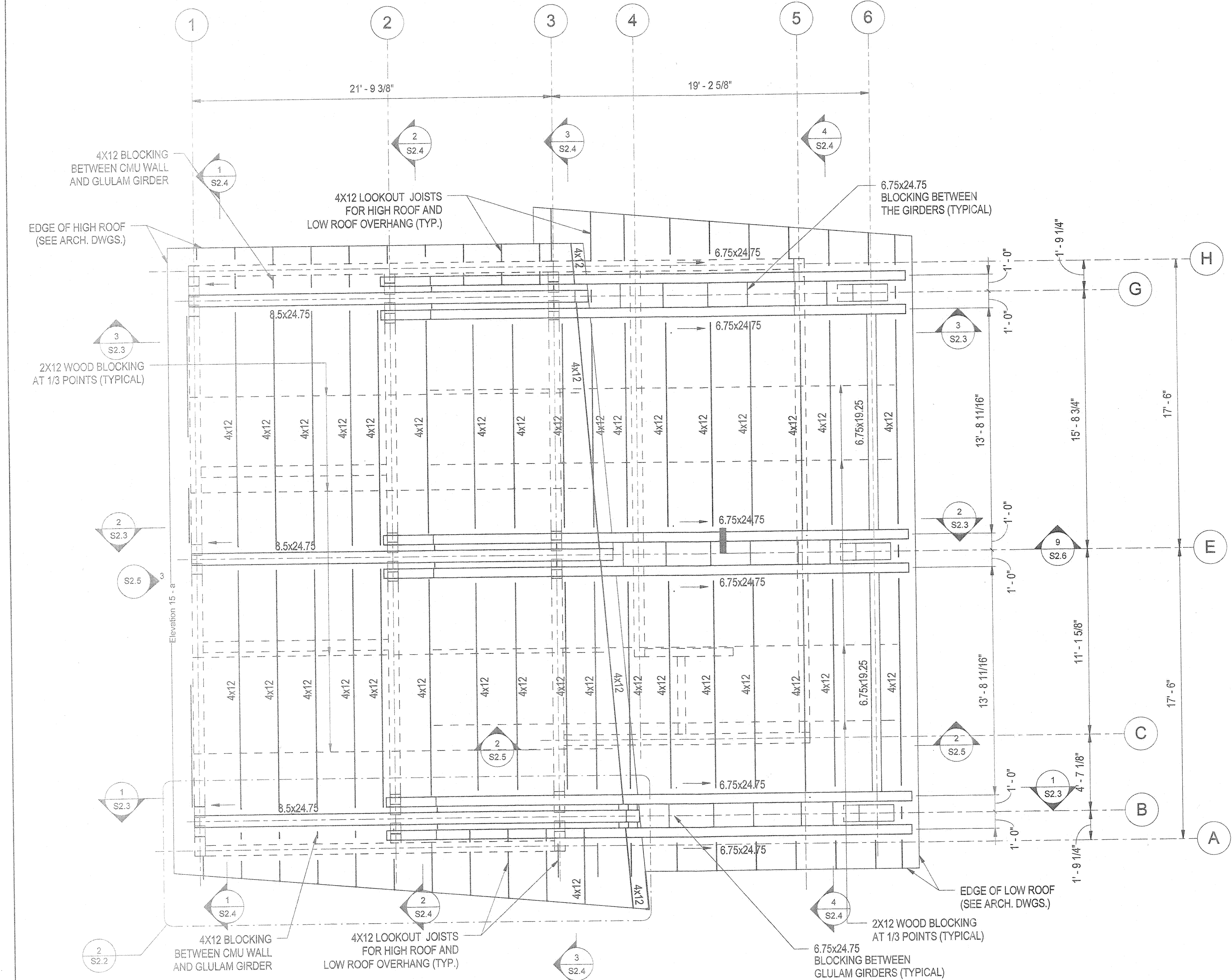
**CC:** Bill Roesler(Howard County Department of Public Works)  
Mark Kovach(Howard County Department of Public Works)  
Chris Ho(Whitman, Requardt & Associates, LLP)  
Wayne Chang(Whitman, Requardt & Associates, LLP)  
Howard Harris(Whitman, Requardt & Associates, LLP)

**Description of Contents**

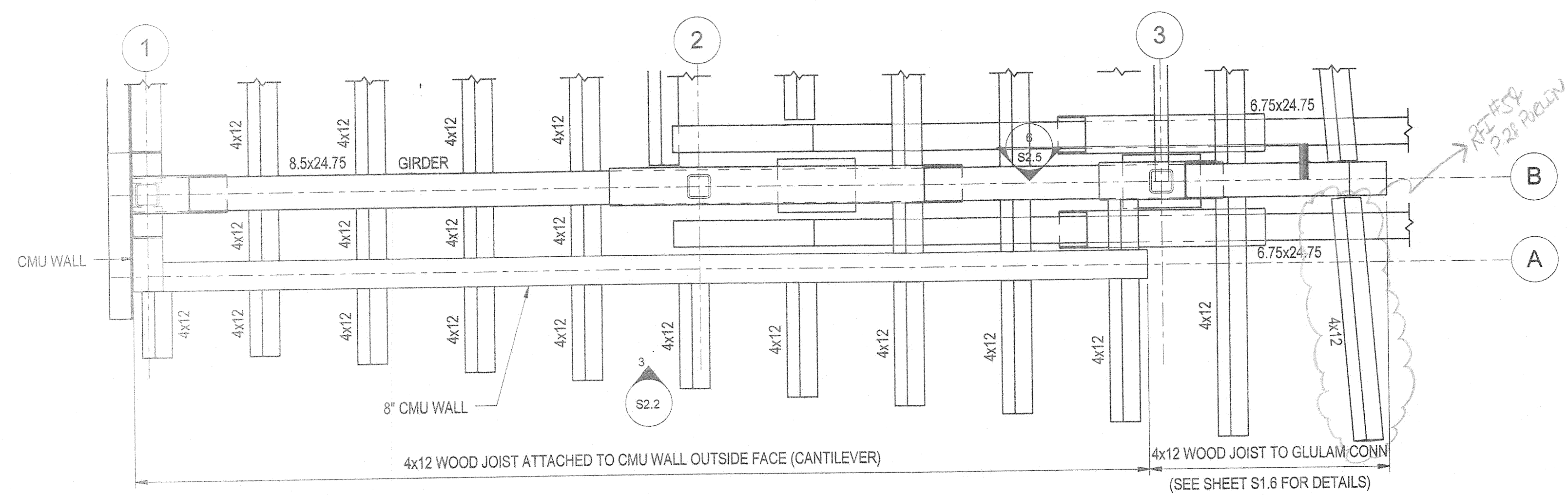
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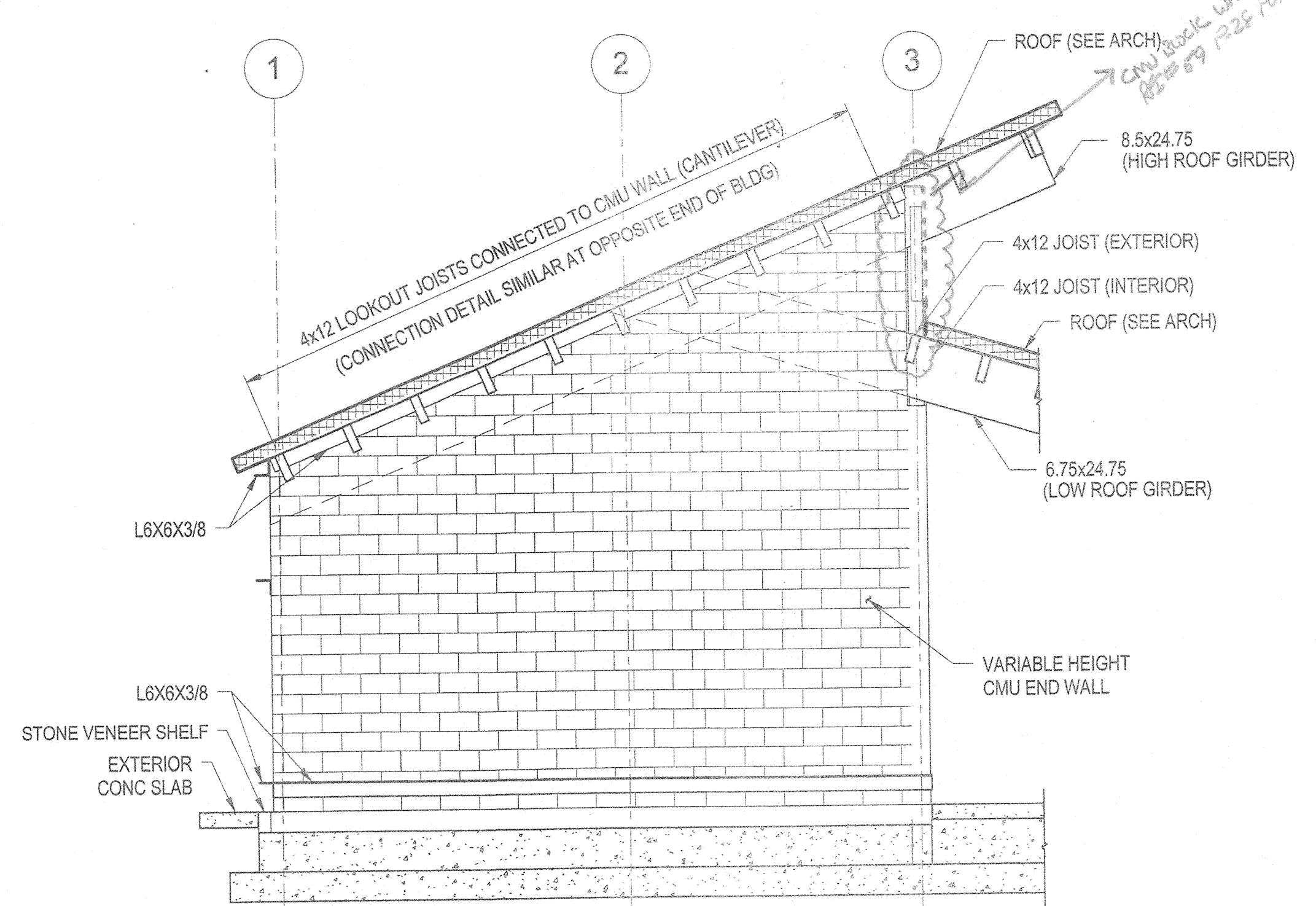


1 COMFORT STATION ROOF FRAMING PLAN  
S2.2 1/4" = 1'-0"



2 ENLARGED PART PLAN DETAIL  
S2.2 1/2" = 1'-0"

NOTE: SOME LOW ROOF JOISTS FRAMING NOT SHOWN FOR CLARITY



3 ELEVATION - END WALL ALONG LINE 'A'  
S2.2 1/4" = 1'-0"

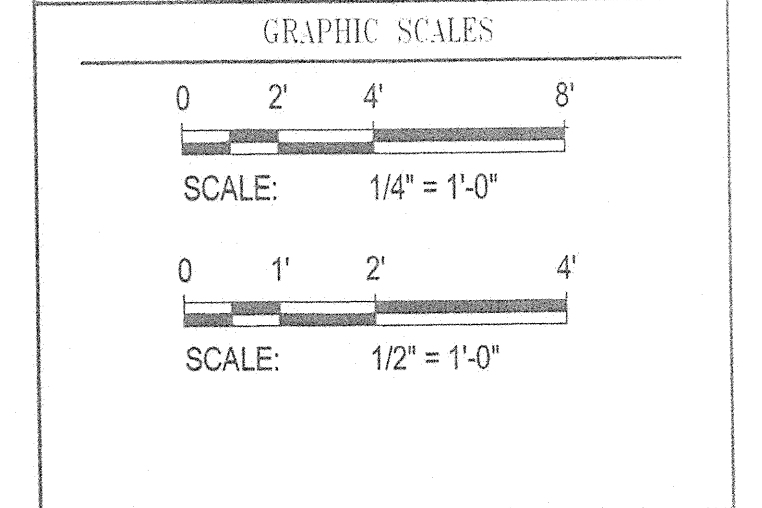
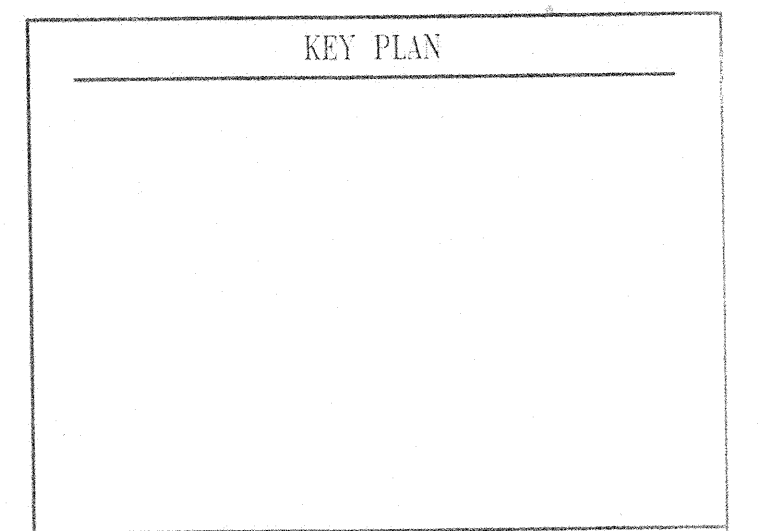
ROOF NOTES

1. ROOF CONSTRUCTION CONSISTS OF 2x6 TONGUE AND GROOVE WOOD DECKING, SUPPORTED ON GLUE LAMINATED (GLULAM) GIRDERS, AND 4x12 WOOD JOISTS FRAMING BETWEEN THE GLULAM GIRDERS AT THE SPACING AND ORIENTATION SHOWN ON THE STRUCTURAL DRAWINGS.
2. THE CONTRACTOR MAY ADJUST THE LOCATIONS OF THE 4x12 ROOF JOISTS AS NECESSARY TO AVOID CONFLICTS WITH THE INTERIOR CMU WALLS. THE MAXIMUM DISTANCE BETWEEN JOISTS SHALL NOT EXCEED 2'-6". THE CONTRACTOR SHALL SUBMIT LAYOUT DRAWINGS FOR APPROVAL BEFORE FABRICATION BEGINS.
3. REFER TO SHEET S0.1 FOR STRUCTURAL NOTES, LOADS, AND CODES AND STANDARDS.
4. REFER TO SHEET S0.2 FOR TYPICAL STRUCTURAL DETAILS.
5. ROOF FRAMING CONNECTION DETAILS AT THE COMFORT STATION ARE SIMILAR TO THOSE AT THE PICNIC SHELTER. REFER TO PICNIC SHELTER DRAWINGS FOR ANY DETAILS NOT SHOWN.

REVISIONS	
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DEPARTMENT OF RECREATION AND PARKS  
7120 OAKLAND MILLS ROAD  
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DEPARTMENT OF PUBLIC WORKS  
9250 BENDIX ROAD  
ELLCOTT CITY, MD 21043

**WR&A**  
WHITMAN, REQUARDT & ASSOCIATES, LLP  
801 South Caroline Street, Baltimore, Maryland 21231  
Phone: 410-253-3150 Fax: 410-243-9716



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BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

COMFORT STATION ROOF FRAMING PLAN  
Drawing No. S2.2

Scale: As indicated  
Date: 11/28/2011 Sheet 36 of 55  
Des: E.F. Drawn: A.A.B. Check: E.F.

11/10/2011 10:48:07 AM N:\42038-001\CADD\Struct\2038-001\_Comfort\_Station.rvt

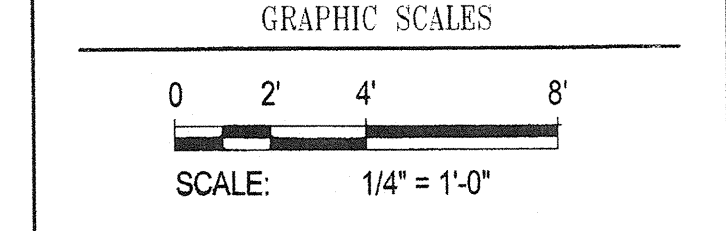
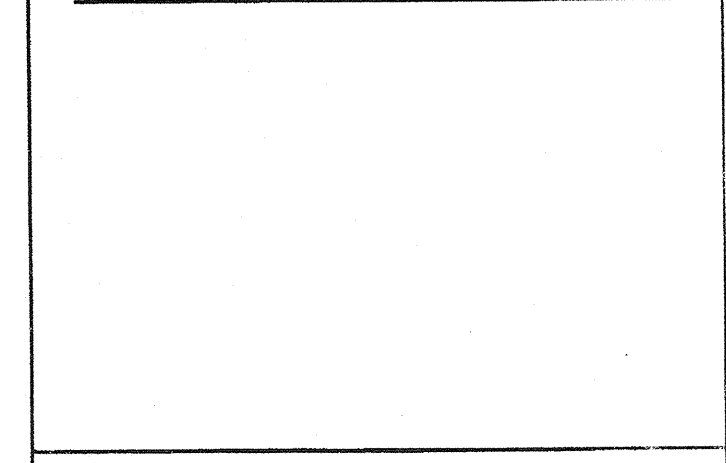
REVISIONS	
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KEY PLAN



SIGNATURE

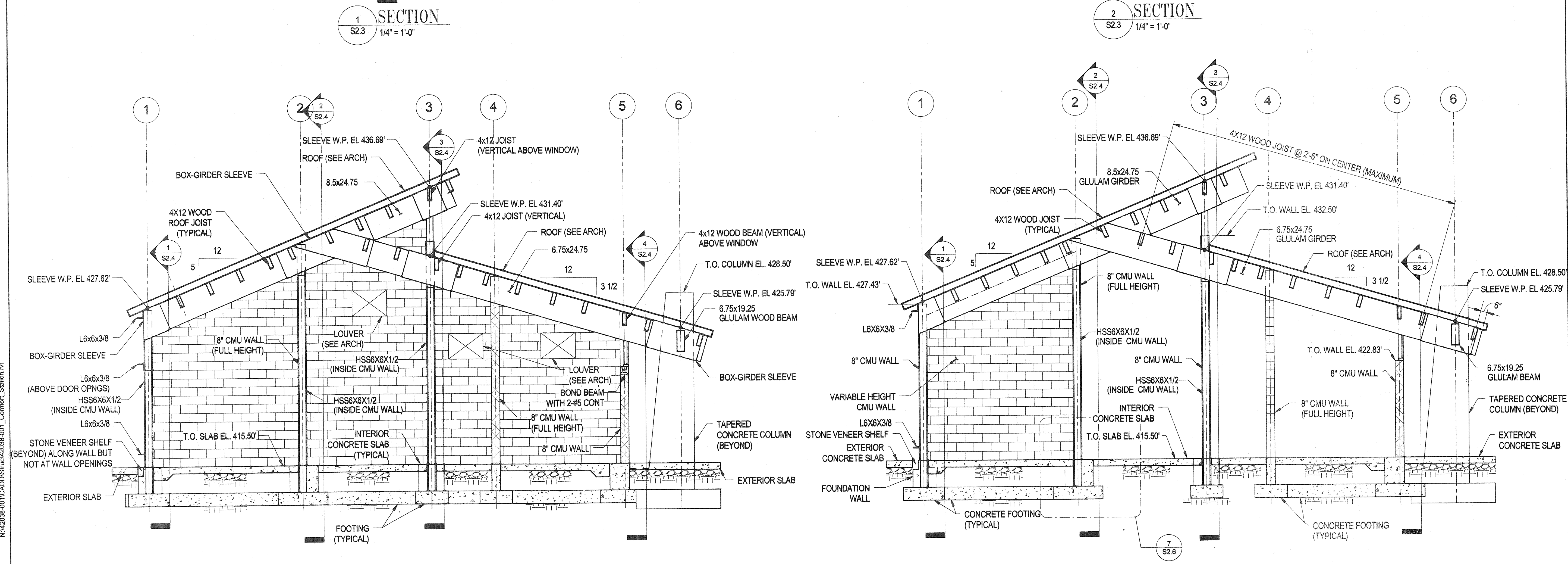
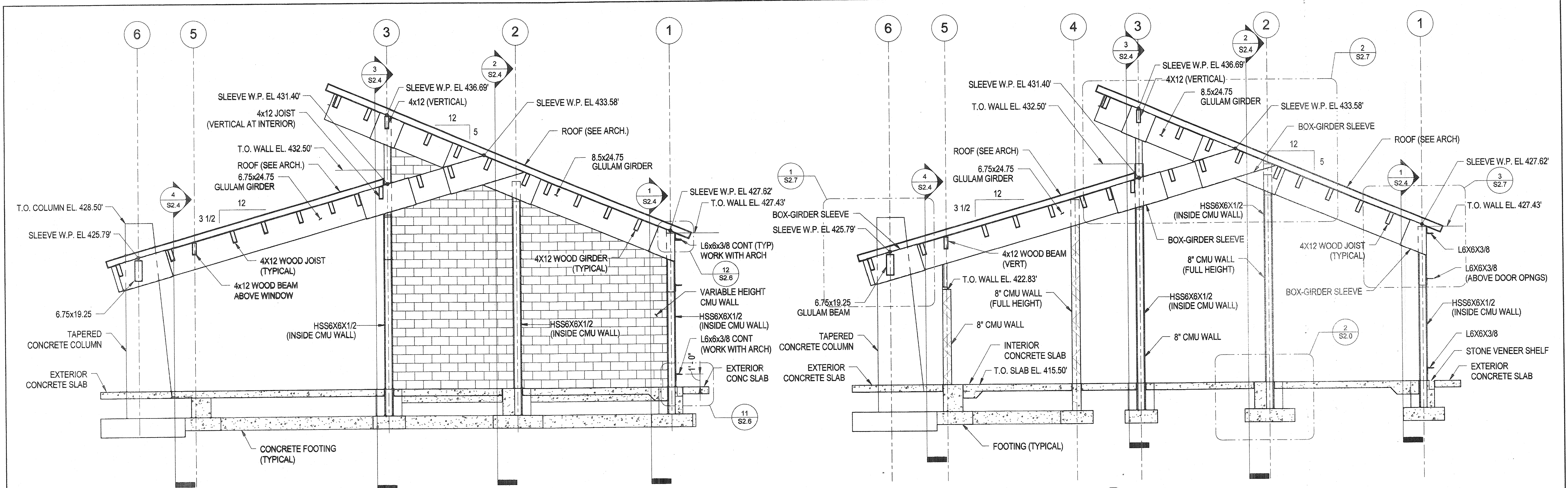
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BLANDAIR REGIONAL  
 PARK - PHASE 1  
 BUILDING CONTRACT

COMFORT STATION SECTIONS

Drawing No.  
**S2.3**

Scale: 1/4" = 1'-0"  
 Date: 11/28/2011 Sheet 37 of 55  
 Des: E.F. Drawn: A.A.B. Check: E.F.



**ROOF FRAMING NOTES**

- THE CONTRACTOR MAY ADJUST THE LOCATIONS OF THE 4x12 ROOF JOISTS AS NECESSARY TO AVOID CONFLICTS WITH THE INTERIOR CMU WALLS. THE MAXIMUM DISTANCE BETWEEN JOIST SHALL NOT EXCEED 2'-6". THE CONTRACTOR SHALL SUBMIT LAYOUT DRAWINGS FOR APPROVAL BEFORE FABRICATION BEGINS.

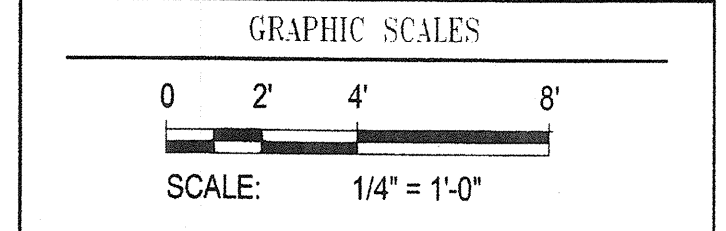
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**WR&A**  
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KEY PLAN

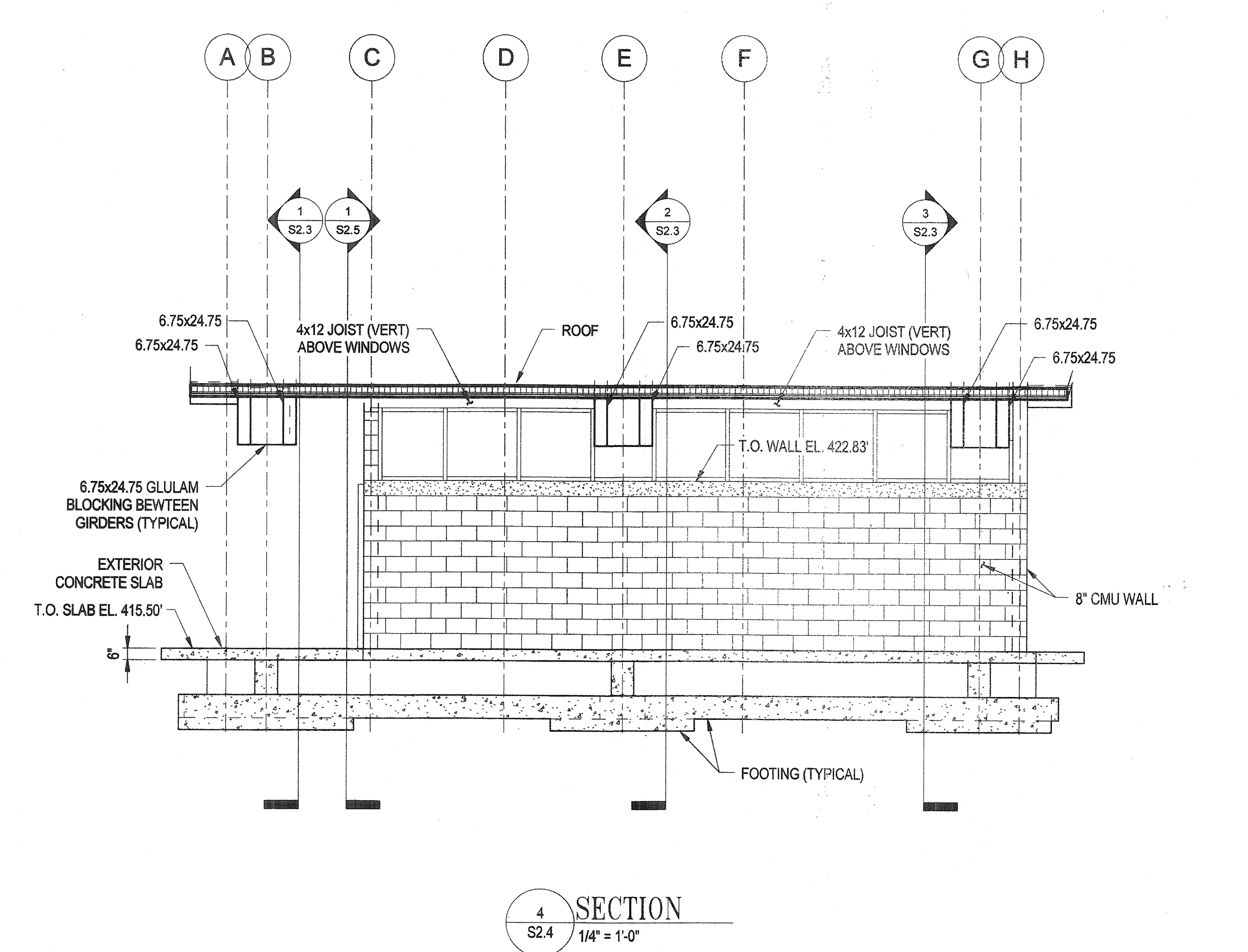
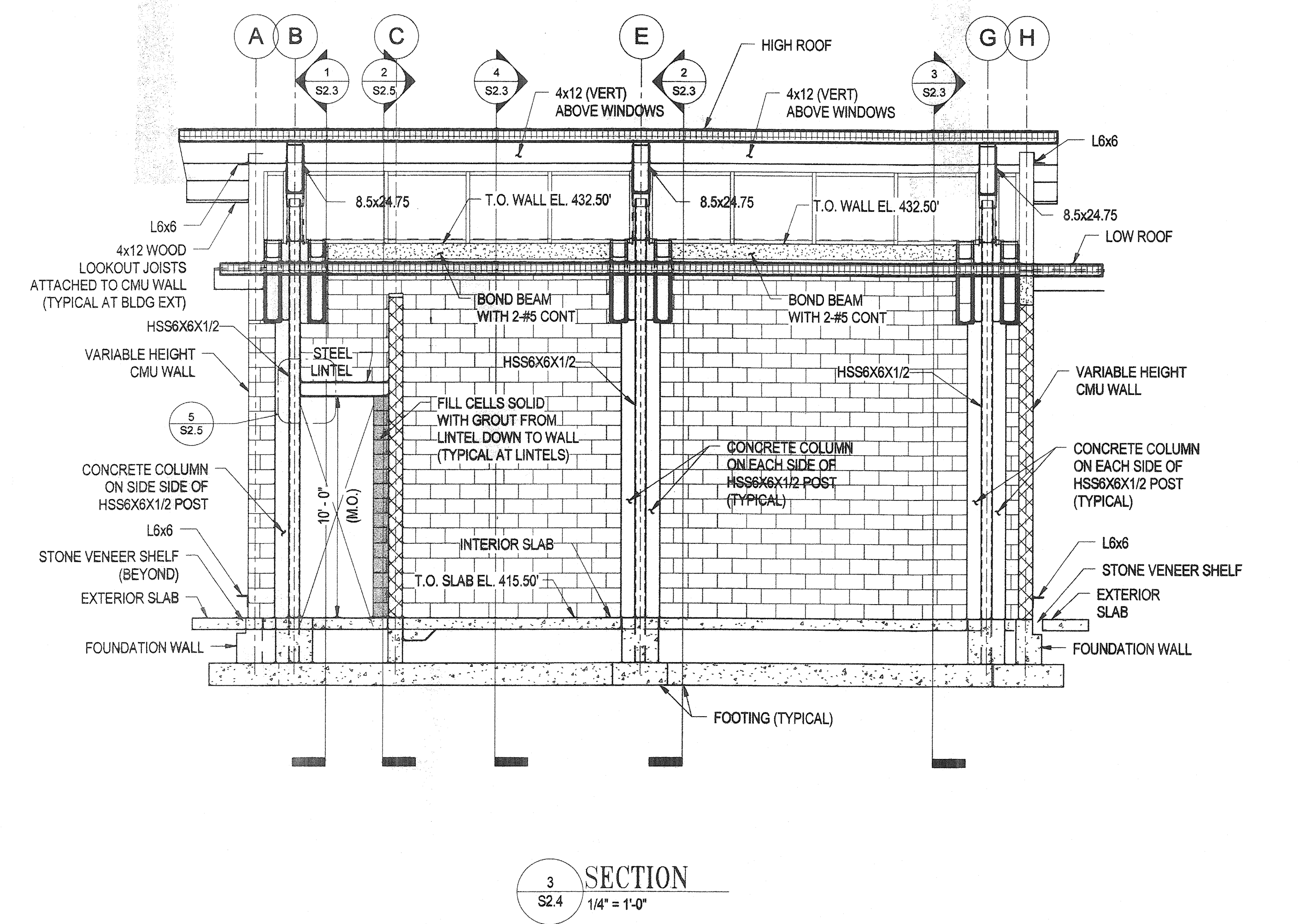
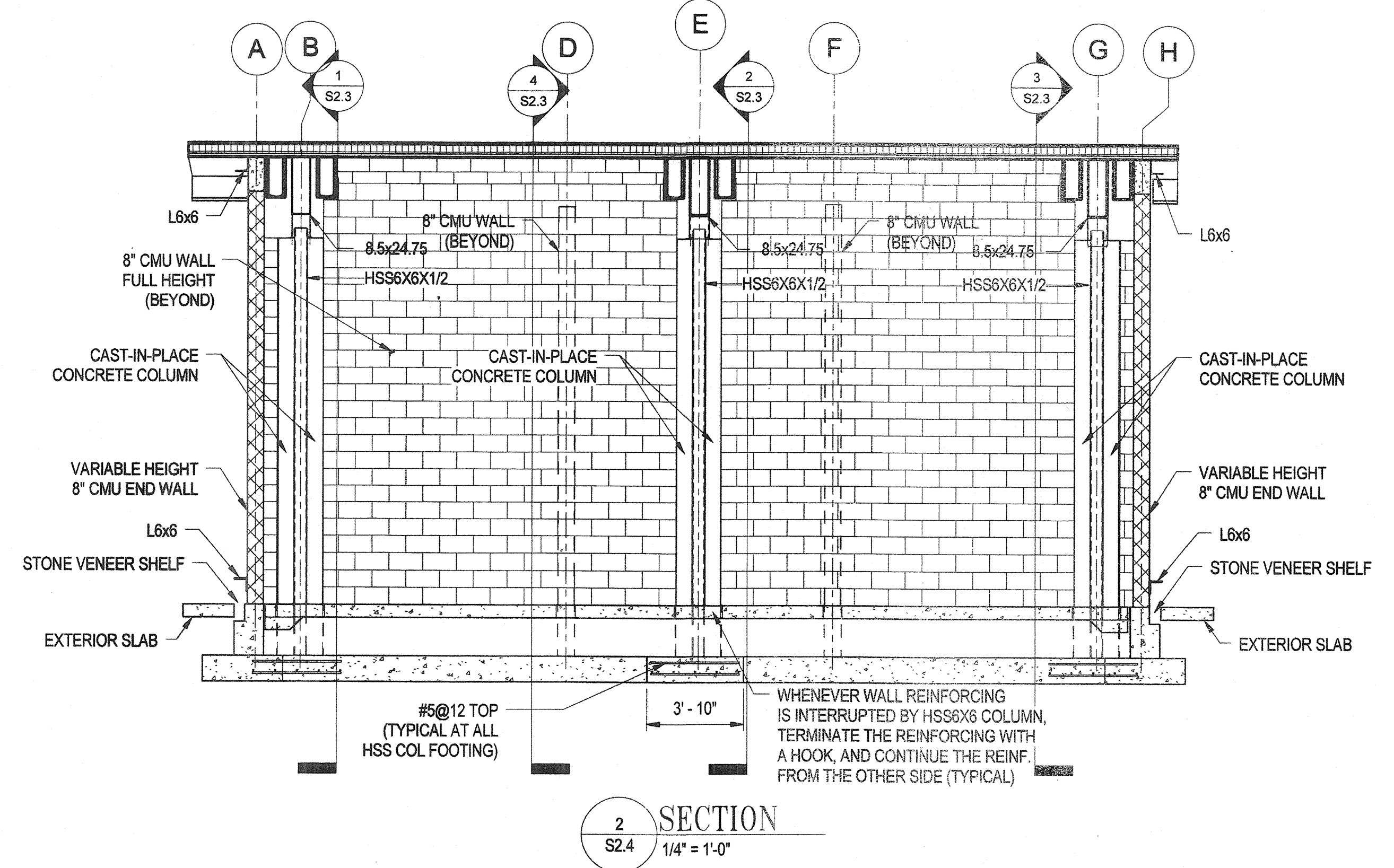
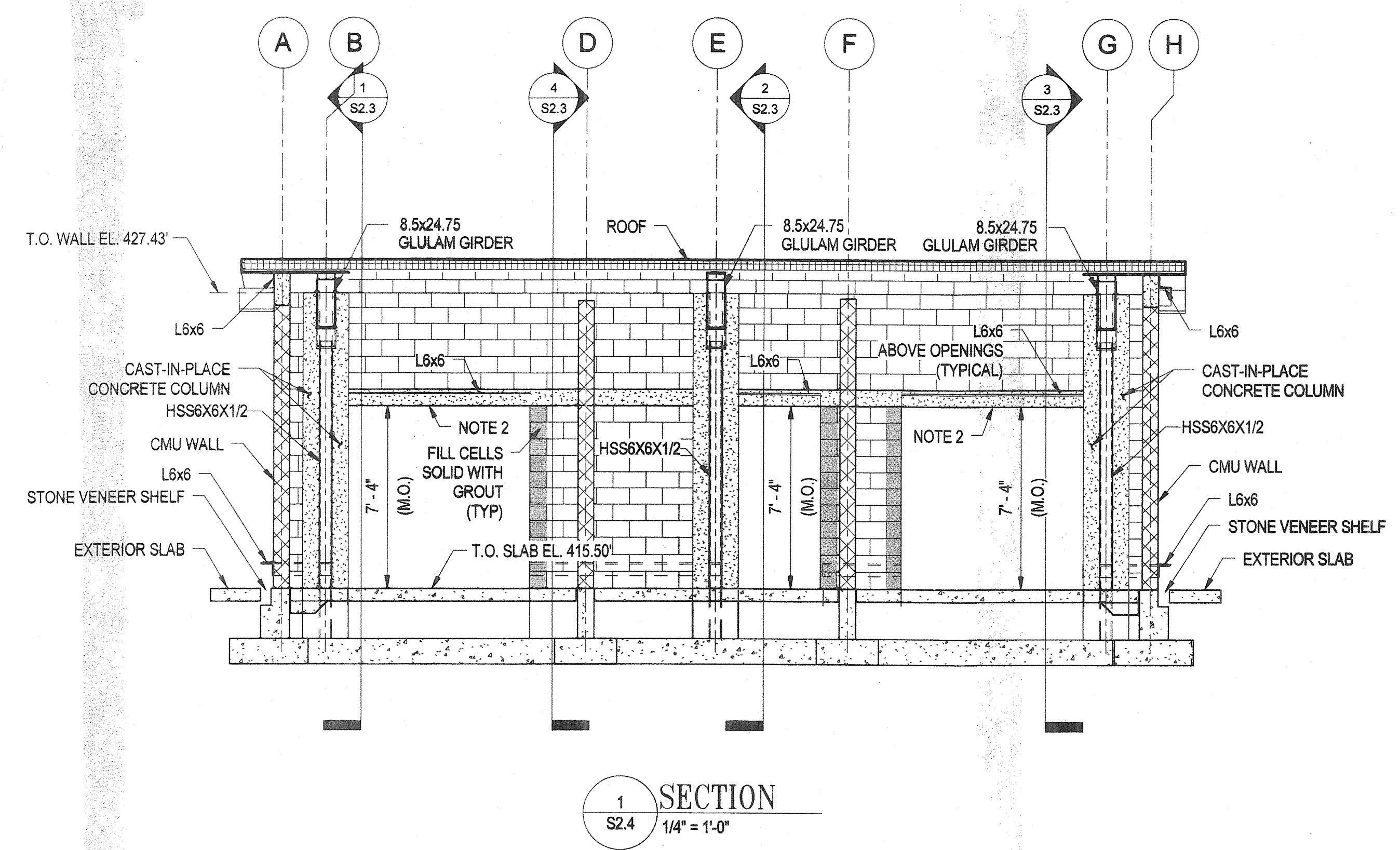


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BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

COMFORT STATION SECTIONS  
 Drawing No.  
**S2.4**  
 Scale: 1/4" = 1'-0"  
 Date: 11/28/2011 Sheet 38 of 55  
 Des: E.F. Drawn: A.A.B. Check: E.F.



**NOTE:**  
 1. REFER TO SHEET S0.2 FOR TYPICAL PRECAST LINTEL ELEVATION AND SECTIONS.  
 2. CONTRACTOR TO COORDINATE CAST-IN-PLACE CONCRETE LINTEL WITH THE POUR FOR THE CONCRETE COLUMNS.

11/10/2011 10:56:15 AM N:\42038-001\CADD\Struct\2008-001\_Comfort\_Station.rvt





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## RESPONSE to R.F.I.

Date Received: 26 July 2012

Date Responded: 31 July 2012

To: Chris Ho

From: Howard Harris

Subject: Precast Lintel

R.F.I. Forwarded by Contractor: Ikhana, LLC

Work Order Number: 42038-001

Contract Number: N-3102

Project: Blandair Park - Phase 1

R.F.I. Number: 032

### Contractor's Questions:

Detail 1/S2.5 shows are precast lintel at door openings. Can we use a CMU bond beam in lieu of precast lintels for these locations?

### WR&A Responses:

It is acceptable to use a CMU lintel beam in lieu of the precast lintel over the door shown in detail 1/S2.5. The lintel beam shall consist of 1 course of standard 8" lintel blocks filled with grout and with (1) #5 bar placed in the bottom of the lintel.

11870 Merchants Walk, Suite 100, Newport News, Virginia 23606 www.wrallp.com Phone: 757-599-5101 Fax: 757-599-5320

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C:\Users\Bert\Desktop\Blandair\RFIs\Blandair Closed RFIs & Sketches\RFIs & ASK's & SCA's\Closed RFIs\32-RFI-032 Precast Lintel - Response.docx

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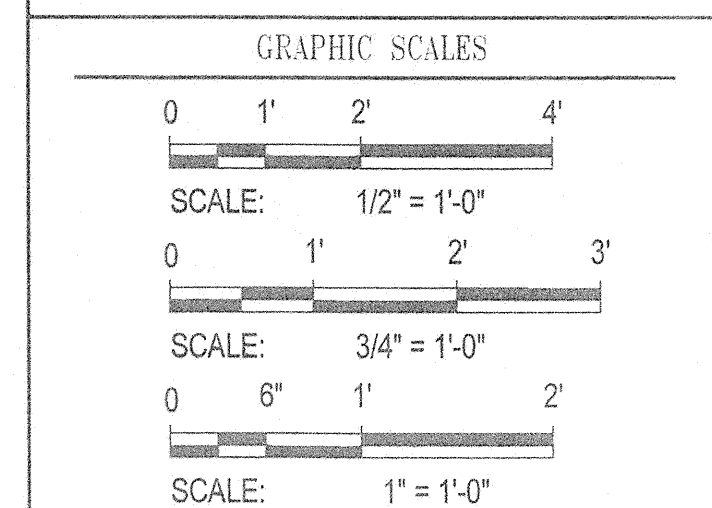
HOWARD COUNTY  
 DEPARTMENT OF RECREATION AND PARKS  
 7120 OAKLAND MILLS ROAD  
 COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS  
 9250 BENDIX ROAD  
 ELLICOTT CITY, MD 21043

**WR&A**

**WHITMAN, REQUARDT & ASSOCIATES, LLP**  
 801 South Caroline Street, Baltimore, Maryland 21231  
 Phone: 410-255-3126 Fax: 410-253-5716

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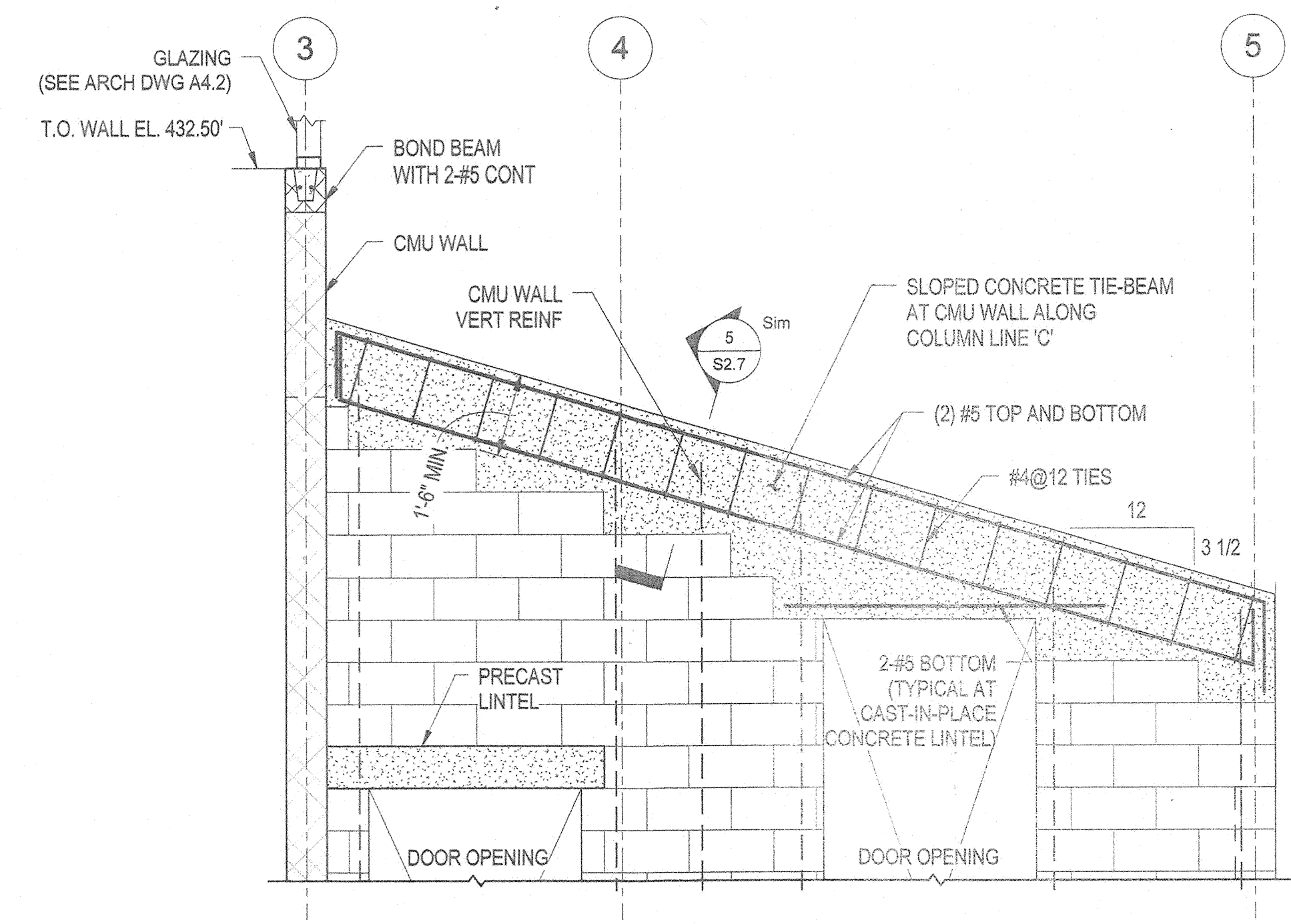
*James Amador*

BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

COMFORT STATION SECTIONS

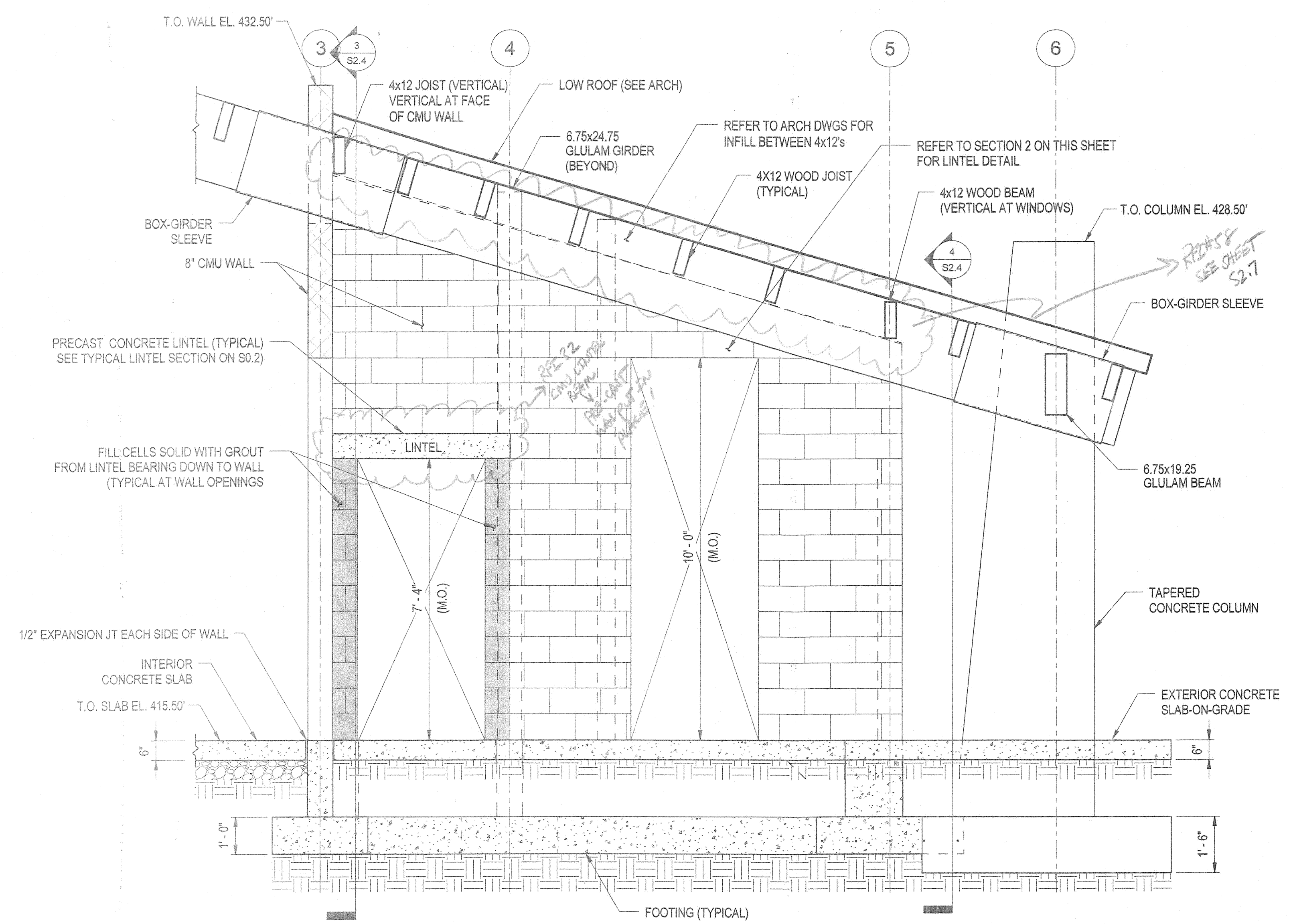
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Scale: As indicated  
 Date: 11/28/2011 Sheet 39 of 55  
 Des: E.F. Drawn: A.A.B. Check: E.F.



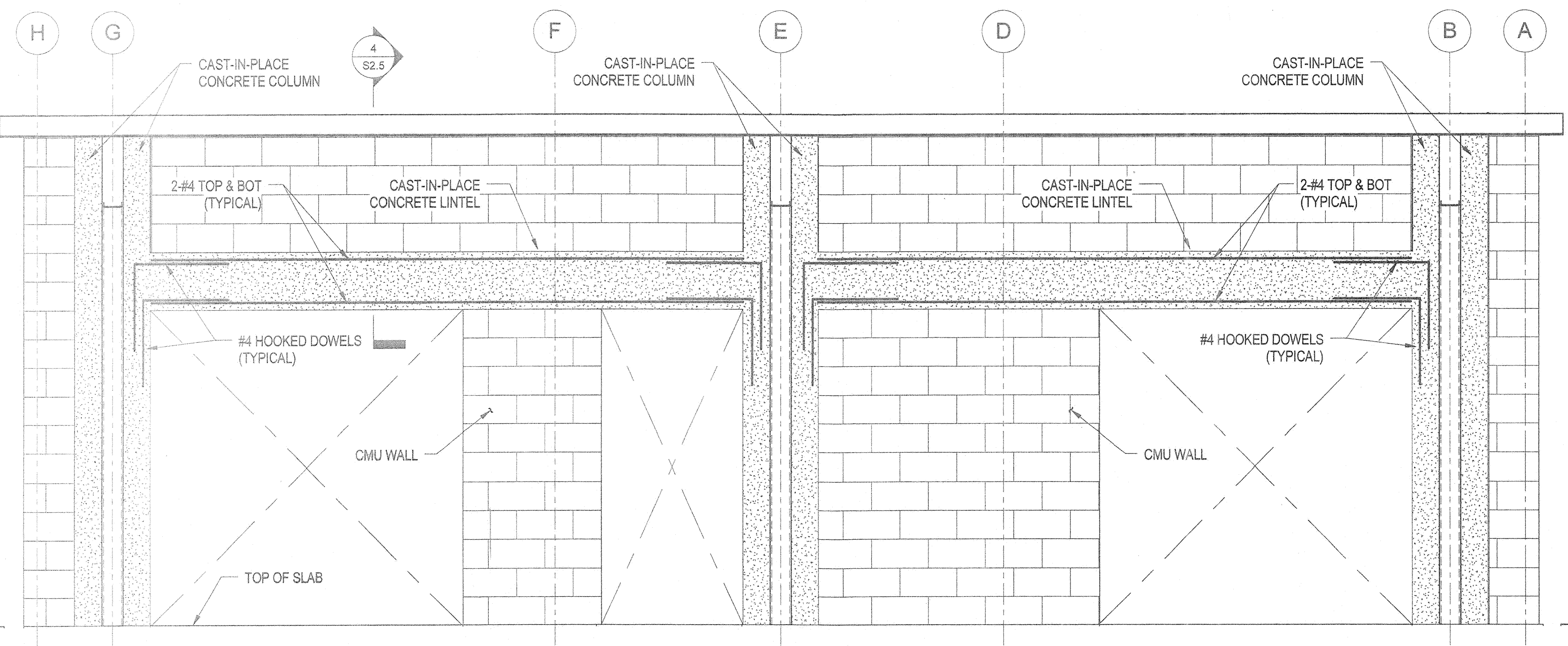
NOTE: REFER TO SHEET S0.2 FOR TYPICAL PRECAST LINTEL ELEVATION AND SECTIONS.

2 SECTION  
 S2.5 1/2" = 1'-0"

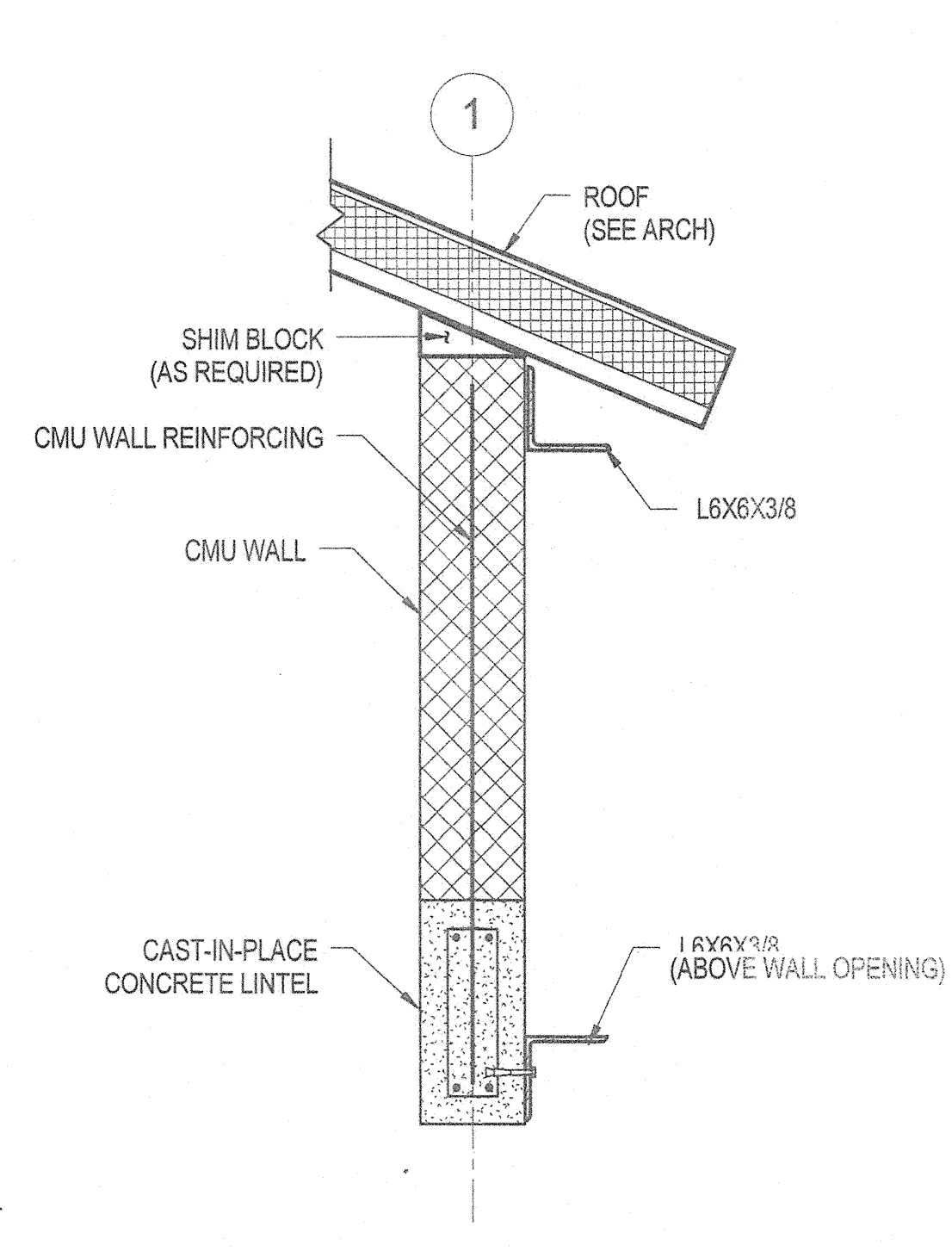


NOTE: REFER TO SHEET S0.2 FOR TYPICAL PRECAST LINTEL ELEVATION AND SECTIONS.

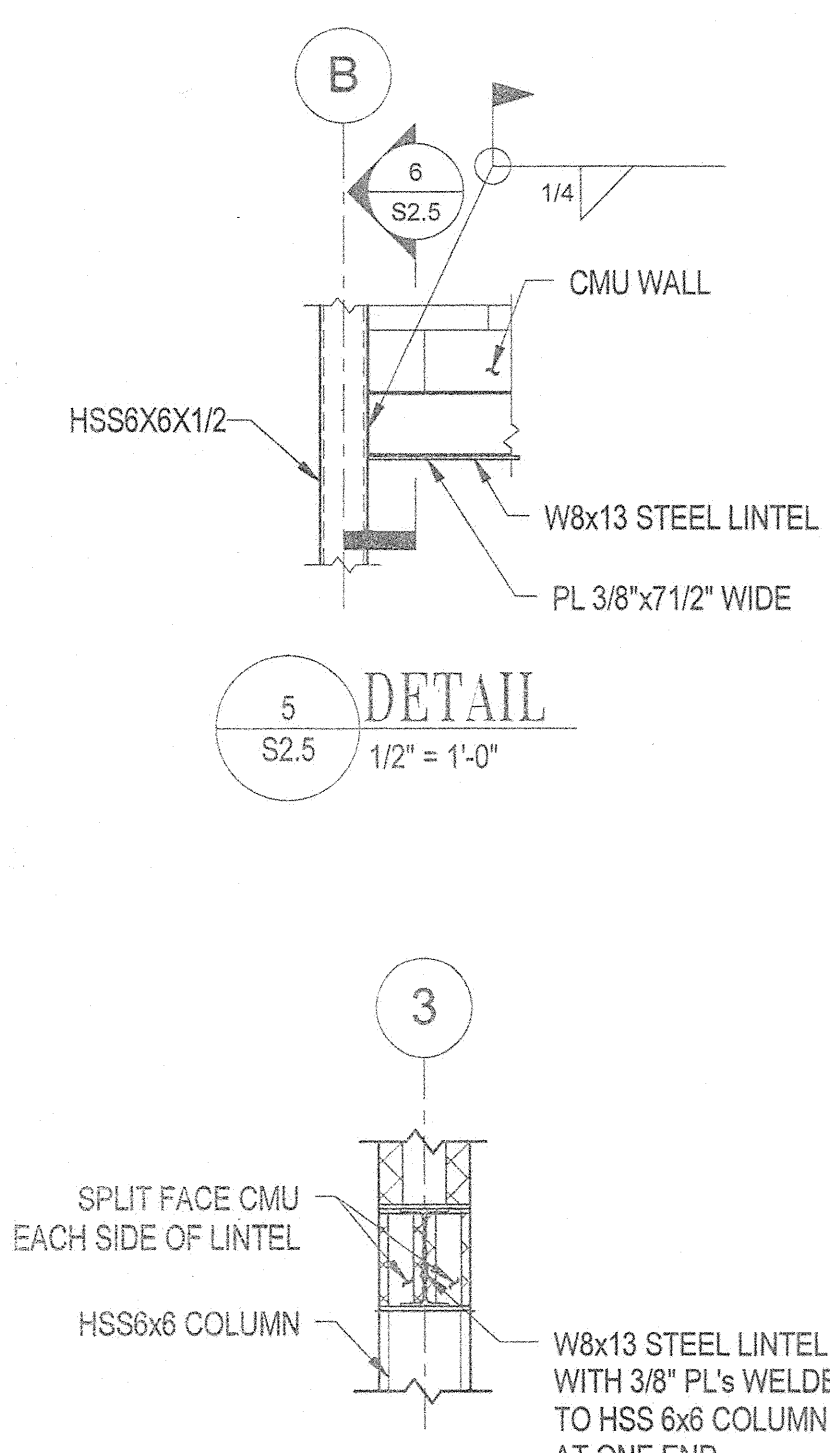
1 SECTION  
 S2.5 1/2" = 1'-0"



3 ELEVATION - ALONG LINE 1  
 S2.5 1/2" = 1'-0"



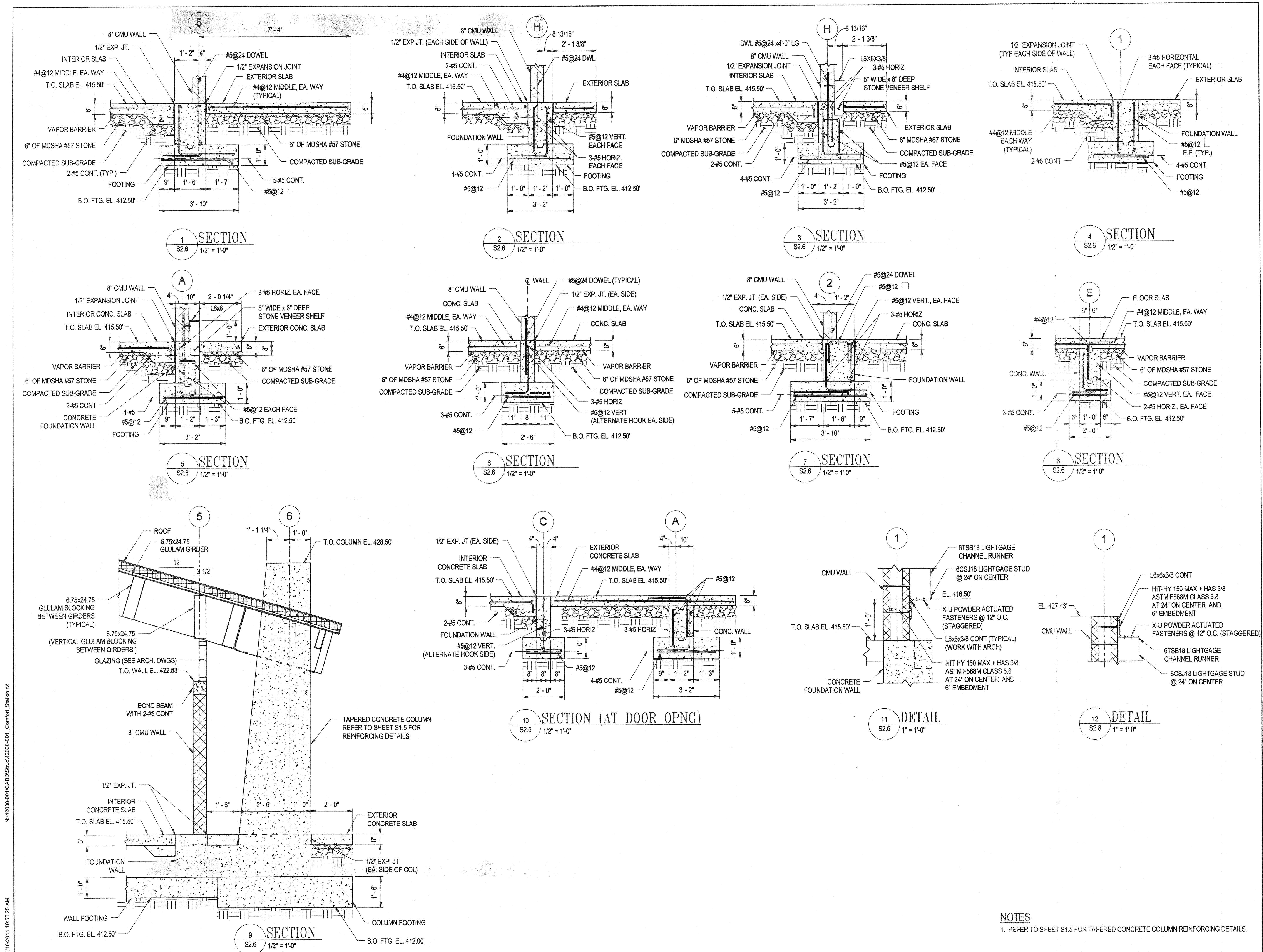
4 SECTION  
 S2.5 1" = 1'-0"



5 DETAIL  
 S2.5 1/2" = 1'-0"

6 SECTION  
 S2.5 3/4" = 1'-0"

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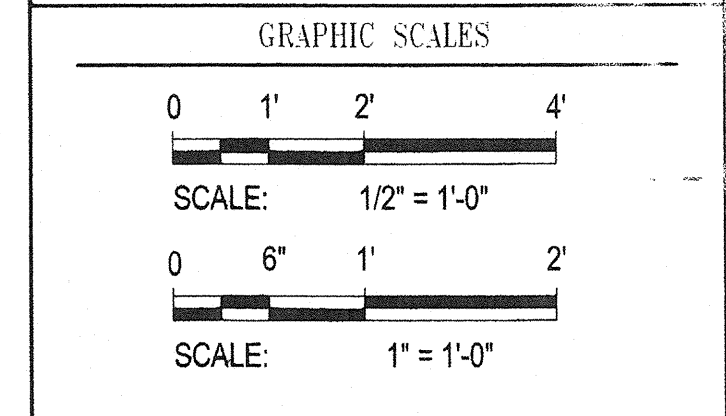
REVISIONS	
BID SET	11/28/11

HOWARD COUNTY  
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 COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS  
 9250 BENDIX ROAD  
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**WR&A**  
 WHITMAN, REQUARDT & ASSOCIATES, LLP  
 801 South Caroline Street, Baltimore, Maryland 21203  
 Phone: 410-233-3150 Fax: 410-233-3716

KEY PLAN



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 EXPIRATION DATE: 09/27/2013

BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

COMFORT STATION FOUNDATION SECTIONS  
 Drawing No. **S2.6**  
 Scale: As indicated  
 Date: 11/28/2011 Sheet 40 of 55  
 Des: E.F. Drawn: A.A.B. Check: E.F.

NOTES  
 1. REFER TO SHEET S1.5 FOR TAPERED CONCRETE COLUMN REINFORCING DETAILS.

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**RFI Transmittal**

**RFI ID:** RFI-058  
**Transmittal ID:** 00337  
**Date Sent:** 11/9/2012

**Project:** Blandair Park-Phase I  
**Number:** 0811.1

**To:** Bert Bunn  
Ikhana  
3650 Bessemer Road  
Mount Pleasant, SC 29466  
United States  
843-566-7800 (Phone)  
843-566-7841 (Fax)

**From:** Brian Dunn  
G|W|O, Inc./Architects  
800 Wyman Park  
Suite 300  
Baltimore, MD 21211  
US  
(410) 332-1009 x5076 (Phone)  
(410) 332-0038 (Fax)

**Subject:** Timber Framing at Concrete Tie Beam Detail  
**Via:** Email

**Purpose:** Answered

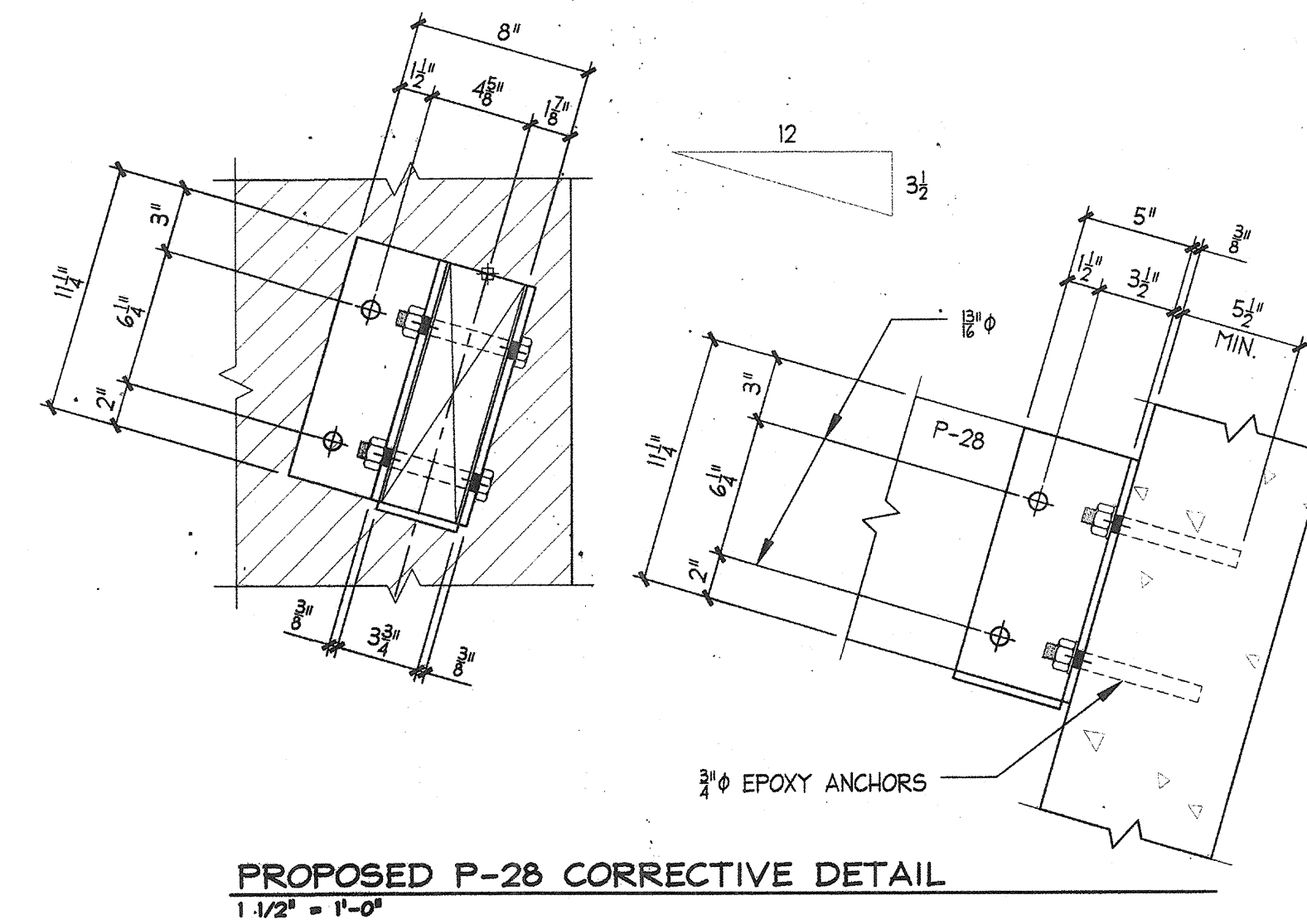
**Question:** The outer wall at the Comfort Station intersecting at column Lines 3C & 5C is too high to follow detail 1/S2.5. Please confirm that it is acceptable to follow detail 6/2.7 typical wood joist connection to CMU wall at this location.

**Suggestion:** The connection of the tie beam to the roof framing needs to be designed by the Delegated Design engineer. Please provide a sketch stamped and signed per the Contract Documents illustrating revised connection detail. The As built concrete tie beam at Column Line C is to remain in place with roof framing connected in the manner as directed by the Delegated Design engineer. In addition see response by WRA attached.

**CC:** Walt Lewis(Ikhana)  
Mark Kovach(Howard County Department of Public Works)  
Bill Roessler(Howard County Department of Public Works)  
Eric Fess(G|W|O, Inc./Architects)

**Description of Contents**

Quantity	Title	Number	Date	Scale	Size
1	Timber Framing at Concrete Tie Beam Detail	RFI-058	-		



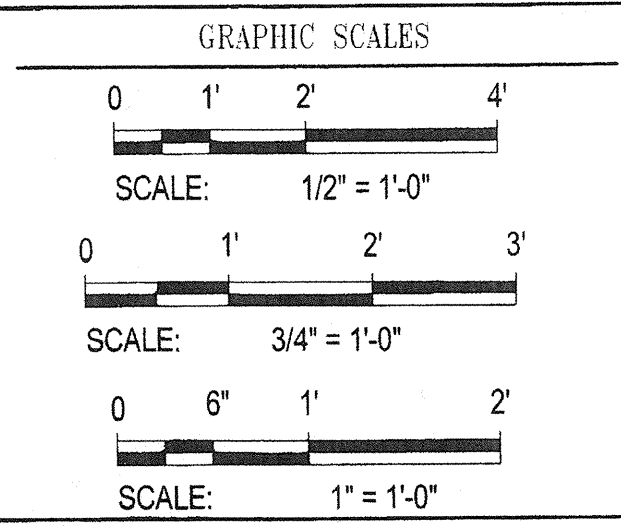
**PROPOSED P-28 CORRECTIVE DETAIL**  
1/12" = 1'-0"

REVISIONS	
BID SET	11/28/11

HOWARD COUNTY  
 DEPARTMENT OF RECREATION AND PARKS  
 7120 OAKLAND MILLS ROAD  
 COLUMBIA, MD 21046  
 DEPARTMENT OF PUBLIC WORKS  
 9250 BENDIX ROAD  
 ELLICOTT CITY, MD 21043

**WR&A**  
 WHITMAN, REQUARDT & ASSOCIATES, LLP  
 801 South Caroline Street, Baltimore, Maryland 21231  
 Phone: 410-255-3450 Fax: 410-243-5110

KEY PLAN



SIGNATURE



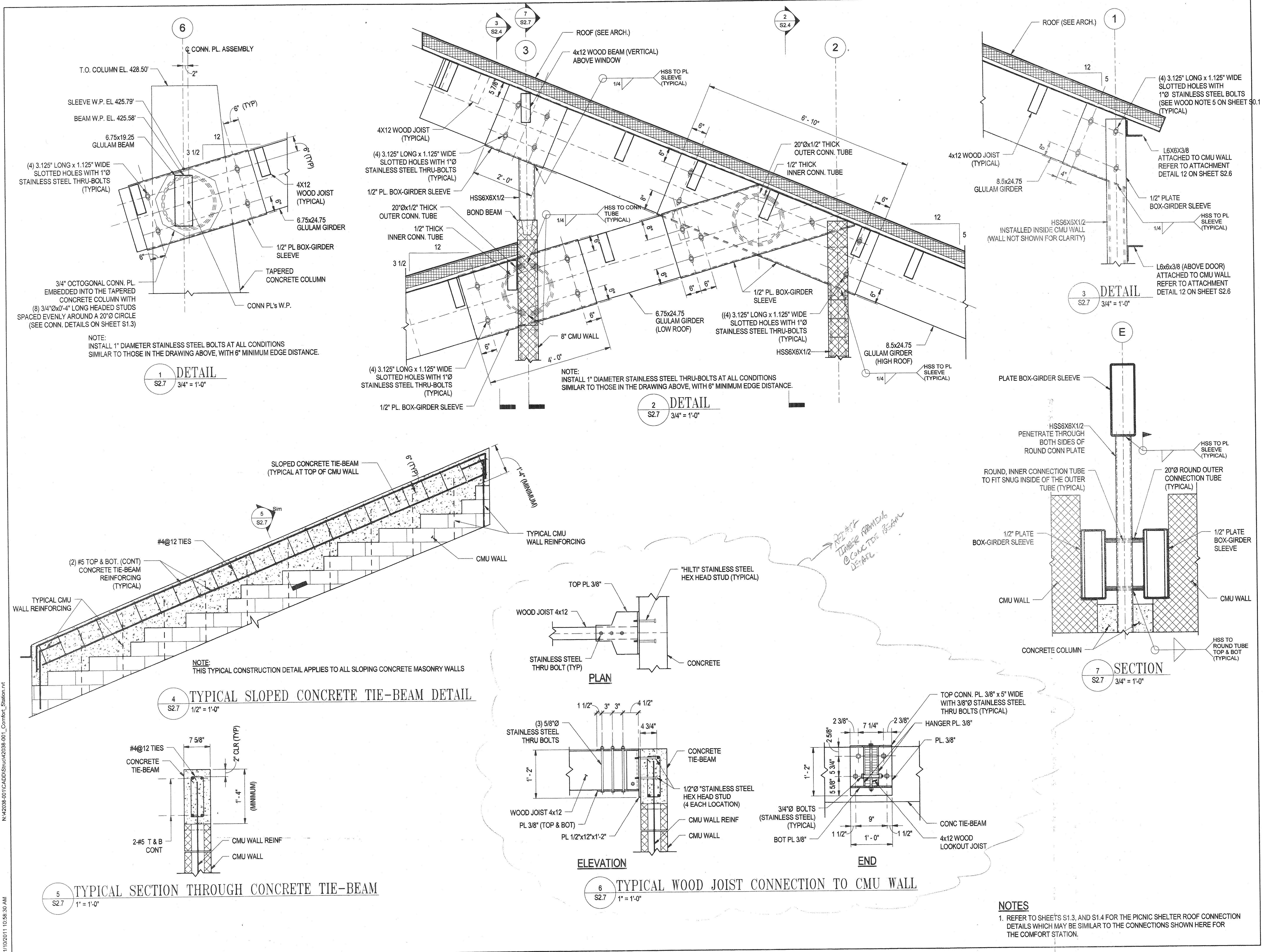
PROFESSIONAL CERTIFICATION  
 I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 9495 EXPIRATION DATE: 09/27/2013

BLANDAIR REGIONAL  
 PARK - PHASE 1  
 BUILDING CONTRACT

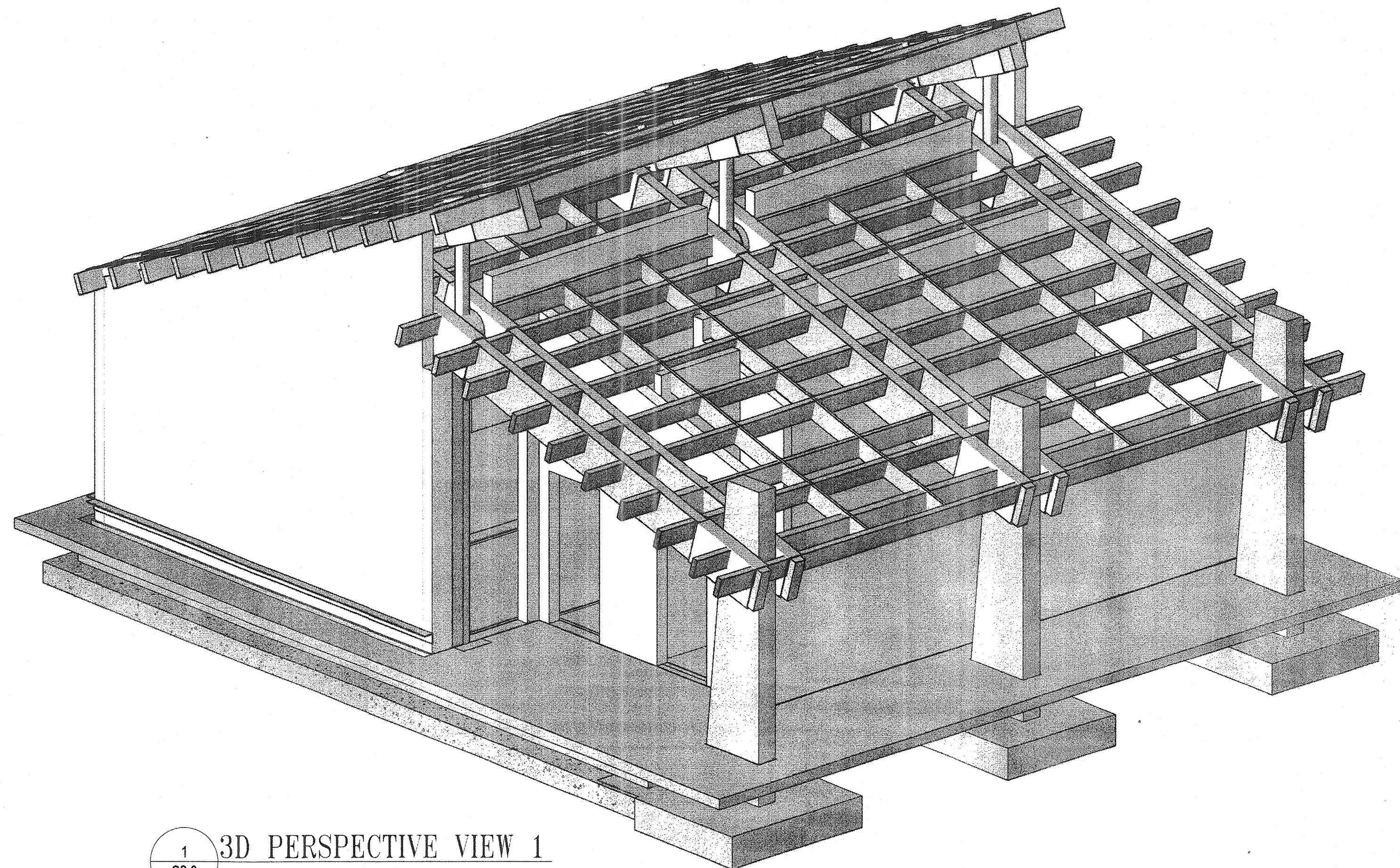
COMFORT STATION ROOF  
 FRAMING SECTIONS &  
 DETAILS

Drawing No.  
**S2.7**

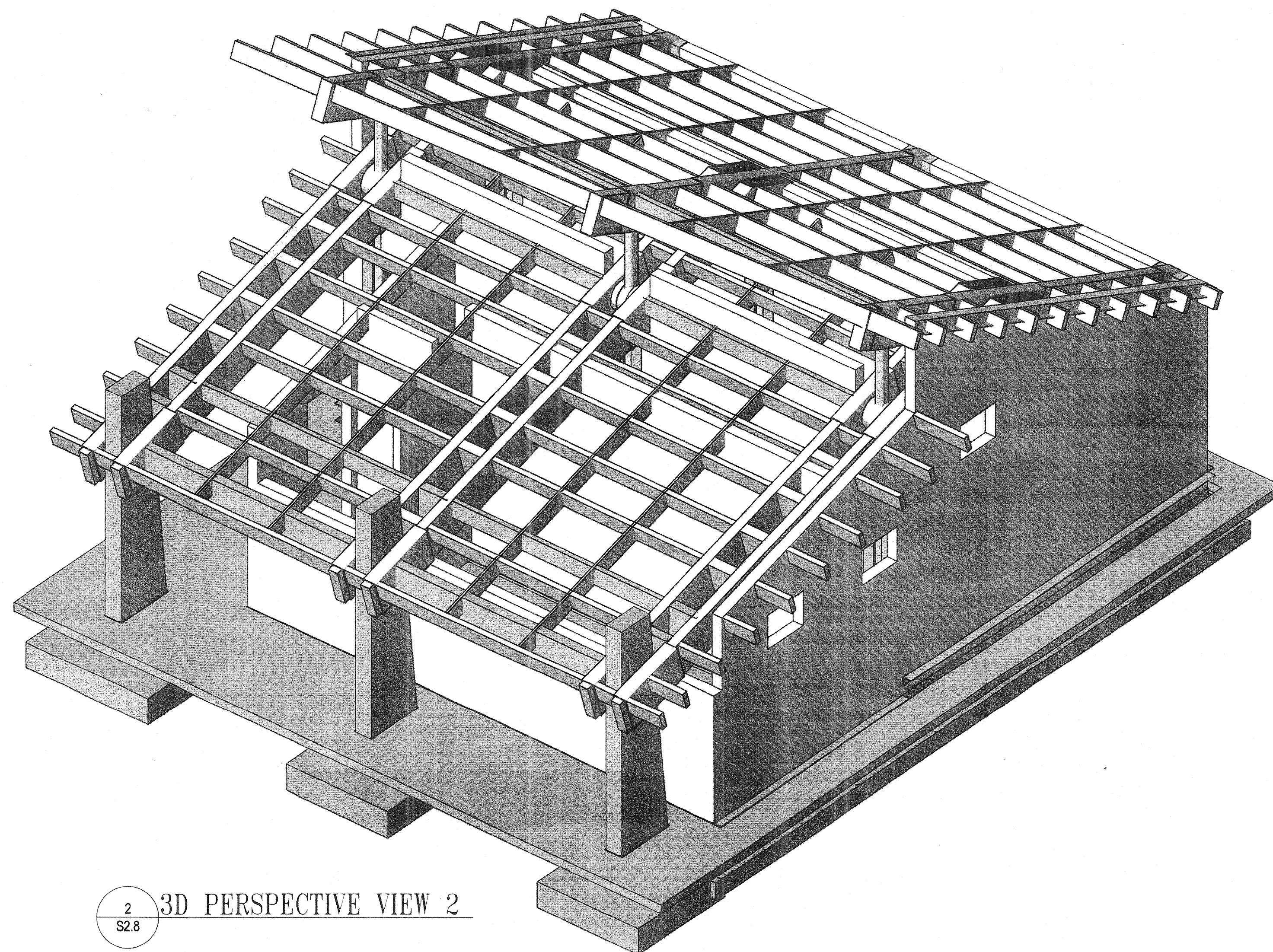
Scale: As indicated  
 Date: 11/28/2011 Sheet 11 of 55  
 Des: E.F. Drawn: A.A.B. Check: E.F.



N:\2008-001\CADD\Struct\2008-001\_Conform\_Station.rvt  
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1  
S2.8 3D PERSPECTIVE VIEW 1



2  
S2.8 3D PERSPECTIVE VIEW 2

REVISIONS	
BID SET	11/28/11

HOWARD COUNTY  
 DEPARTMENT OF RECREATION AND PARKS  
 7120 OAKLAND MILLS ROAD  
 COLUMBIA, MD 21016  
 DEPARTMENT OF PUBLIC WORKS  
 9250 BENDIX ROAD  
 ELLICOTT CITY, MD 21043



WHITMAN, REQUARDT & ASSOCIATES, LLP  
 801 South Caroline Street, Baltimore, Maryland 21231  
 Phone: 410-253-3150 Fax: 410-243-5716

KEY PLAN

GRAPHIC SCALES

SIGNATURE

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BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

COMFORT STATION 3D PERSPECTIVE VIEWS  
 Drawing No.  
**S2.8**

Scale: NOT TO SCALE  
 Date: 11/28/2011 Sheet 42 of 55  
 Des: E.F. Drawn: A.A.B. Check: E.F.



RFI Transmittal

RFI ID: RFI-005  
Transmittal ID: 00027  
Date Sent: 5/18/2012

**Project:** Blundell Park-Phase 1  
**Number:** 0811.1

**To:** Marion Davis  
Ikhana  
2120 Noisette Blvd.  
Suite 106A  
Charleston, SC 29405  
United States  
843-566-7800 (Phone)  
843-566-7841 (Fax)

**From:** Eric Feiss  
GWWO, Inc./Architects  
800 Wyman Park  
Suite 300  
Baltimore, MD 21211  
US  
(410) 332-1009 x1107 (Phone)  
(410) 332-0038 (Fax)

**Subject:** RFI-005: Exhaust Fan Controls  
**Via:** Email  
**Purpose:** Answered  
**Question:** Please see attached RFI 005.

Thank you,

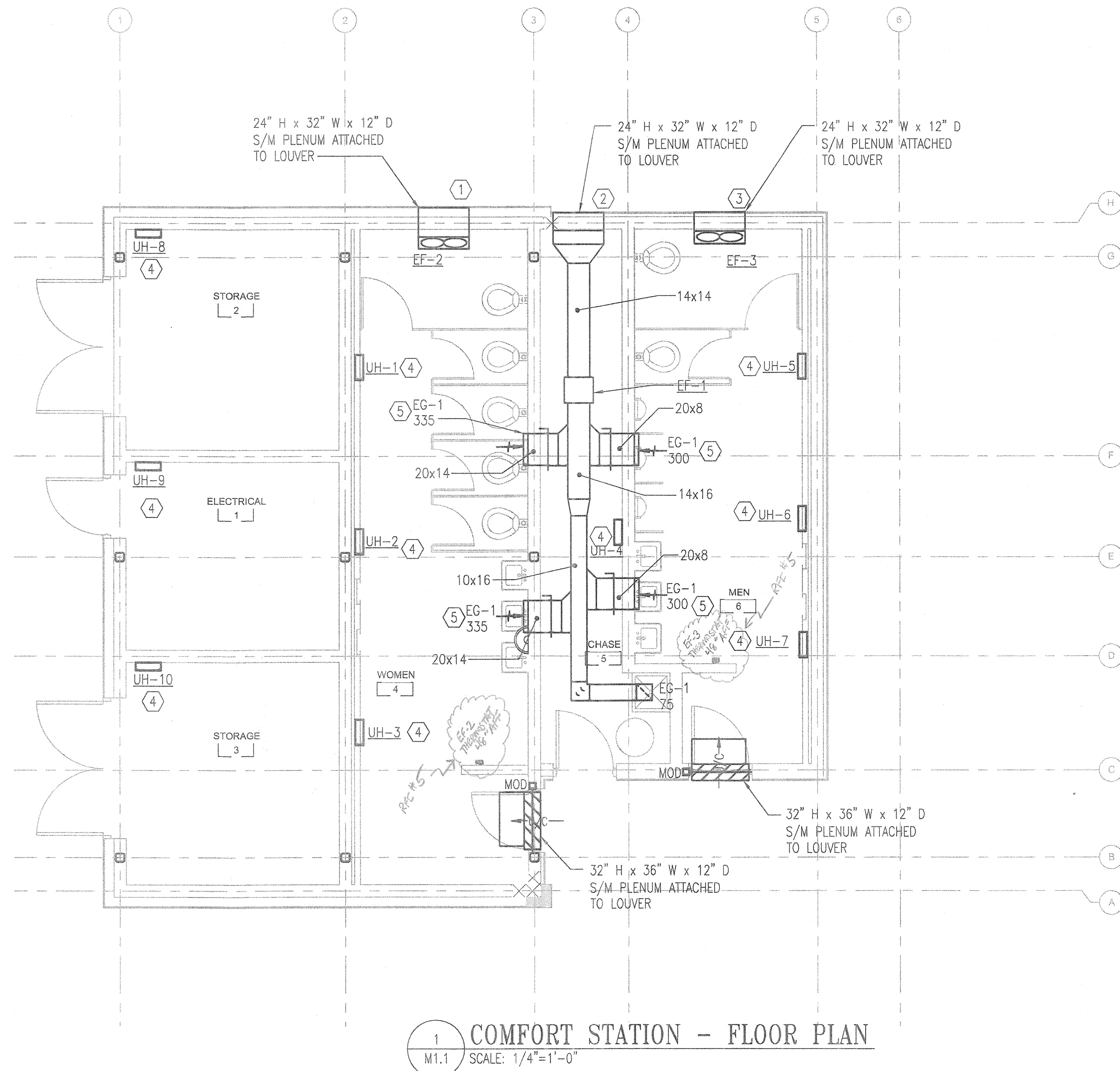
Marion P. Davis  
Project Manager, LEED AP



2120 Noisette Boulevard  
Suite 106A  
North Charleston, SC 29405  
843-566-7800 Office  
843-566-7841 Fax  
843-696-5655 Cell Number  
[www.ikhanainc.com](http://www.ikhanainc.com)

**Suggestion:**  
**Answer:** Provide line voltage thermostats to control EF-2 and EF-3. Thermostats shall be located 48" above finished floor to center of controls. Mount thermostat on wall next to door. Provide thermostats with tamper-proof, locked security covers. Fans shall turn on when the temperature in the spaces rise above 70 deg F.





**SPECIFIC NOTES:**

- ① BOTTOM ELEVATION OF PROPELLER FAN 11'-4" AFF.
- ② BOTTOM ELEVATION OF LOUVER 8'-0" AFF.
- ③ BOTTOM ELEVATION OF PROPELLER FAN 8'-0" AFF.
- ④ BOTTOM ELEVATION OF UNIT HEATER 4' AFF.
- ⑤ BOTTOM ELEVATION OF EXHAUST GRILLE 9'-4" AFF.

REF #5, WREA RESPONSE - EXHAUST FAN CONTROLS  
 PROVIDE LINE VOLTAGE THERMOSTATS TO CONTROL EF-2 & EF-3. THERMOSTATS SHALL BE LOCATED 48" AFF. MOUNT THERMOSTATS ON WALL NEXT TO DOOR. PROVIDE THERMOSTATS W/TAMPER PROOF, LOCKED SELECTOR COVERS. FAN SHALL TURN ON WHEN THE TEMP IN THE SPACES ROSE ABOVE TO DEG F

REVISIONS	
BID SET	11/28/11

**HOWARD COUNTY**

DEPARTMENT OF RECREATION AND PARKS  
 7120 OAKLAND MILLS ROAD  
 COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS  
 9250 BENDIX ROAD  
 ELLICOTT CITY, MD 21043

**WR&A**

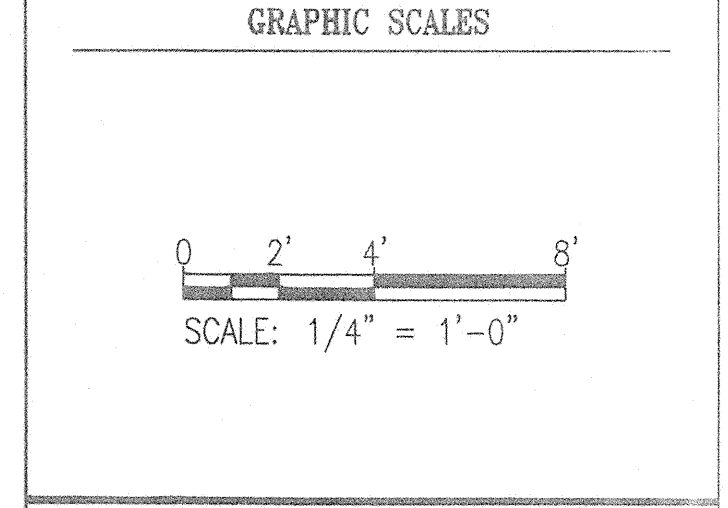
WHITMAN, REQUARDT & ASSOCIATES, LLP  
 801 South Caroline Street, Baltimore, Maryland 21231  
 Phone: 410-235-3450 Fax: 410-243-6716

**PROPERTY**

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7



**SIGNATURE**

PROFESSIONAL CERTIFICATION.  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 10243  
 EXPIRATION DATE: 02/07/2013

**BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT**

COMFORT STATION - FLOOR PLAN

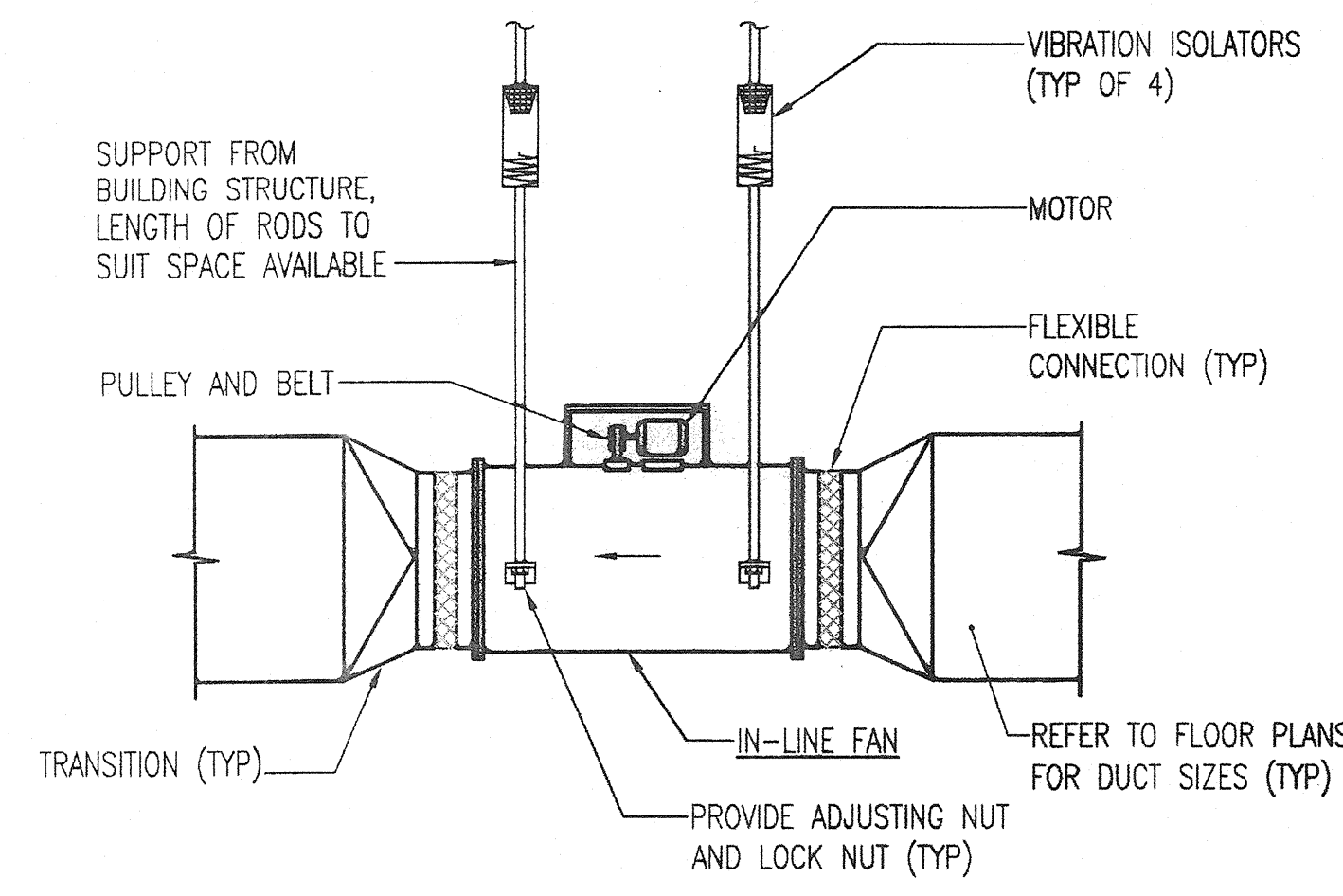
Drawing No. **M1.1**

Scale: AS NOTED

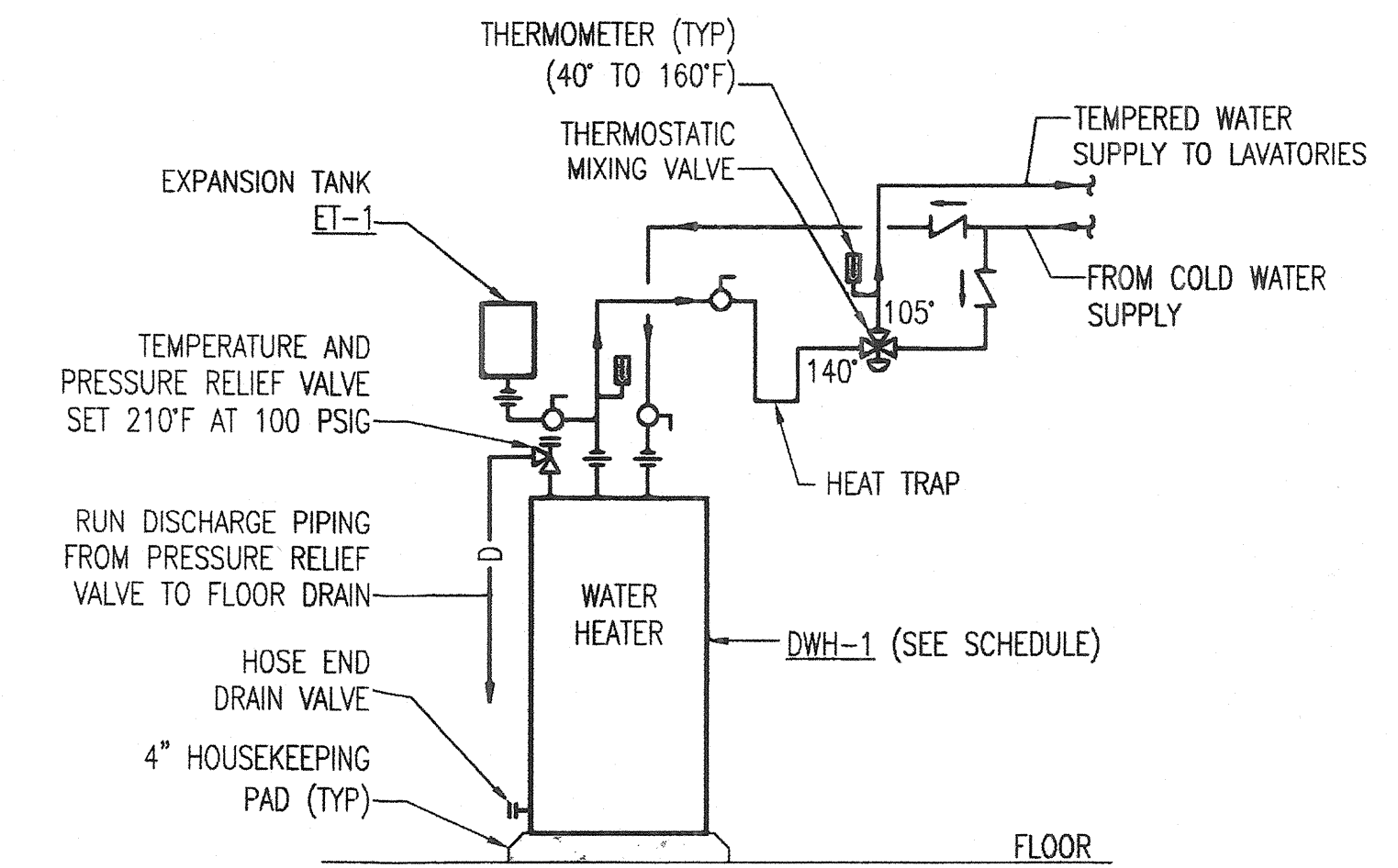
Date: 11/28/2011 Sheet 44 of 55

Des: ALM Drawn: PBF Check: CEH

PLOT DATE: 11/28/2011 10:25:54 AM PLOT SETUP: SHEETS GENERATED FROM: PLOT STYLE: WPA\_ABBREVIATED\_PAPER\_SIZE: ARCH: 11 X 17 INCHES  
 PLOTNAME: H:\48250-00\CAD\DWG\482500001.DWG



**CENTRIFUGAL IN-LINE FAN**  
NOT TO SCALE



**ELECTRIC DOMESTIC WATER HEATER CONNECTION**  
NOT TO SCALE

FAN SCHEDULE													
UNIT ID	TYPE	SERVICE	LOCATION	CFM	ESP (IN WG)	FAN RPM	FAN DIA (IN)	DRIVE TYPE	METHOD OF CONTROL	ELECTRICAL DATA		WEIGHT (LBS)	BASIS OF DESIGN
										HP	VOLTS/PH		
EF-1	INLINE CENTRIFUGAL	WOMEN AND MEN'S EXHAUST	CHASE	1,345	0.30	1725	-	DIRECT	WALL SWITCH	1/2	208/1	67	GREENHECK SQ
EF-2	SIDEWALL PROPELLER	SUMMER VENTILATION	WOMENS	1,330	0.05	1750	12	DIRECT	TSTAT	1/4	115/1	20	GREENHECK SE1
EF-3	SIDEWALL PROPELLER	SUMMER VENTILATION	MENS	720	0.05	860	12	DIRECT	TSTAT	1/8	115/1	20	GREENHECK SE1

PLUMBING FIXTURE SCHEDULE									
UNIT ID	DESCRIPTION	CW (N)	HW (N)	SAN (N)	VENT (N)	WSFU	DFU	REMARKS	BASIS OF DESIGN
P-1	WATER CLOSET WALL MOUNTED	1	-	4	2	10	4	NOTE 1	AMERICAN STANDARD, AFWALL
P-1A	WATER CLOSET WALL MOUNTED ADA COMPLIANT	1	-	4	2	10	4	NOTE 1	AMERICAN STANDARD, AFWALL
P-2	URINAL	3/4	-	2	1 1/2	5	2	1/8 GAL PER FLUSH (NOTE 1)	ZURN
P-2A	URINAL ADA COMPLIANT	3/4	-	2	1 1/2	5	2	1/8 GAL PER FLUSH (NOTE 1)	ZURN
P-3	LAVATORY WALL MOUNTED ADA COMPLIANT	-	1/2	1 1/2	1 1/2	2	1	NOTE 2	AMERICAN STANDARD, LUCERNE
P-4	MOP SINK	3/4	3/4	3	1 1/2	3	2	24"x24"	FIAT

NOTES:  
1. SENSOR OPERATED FLUSH VALVE.  
2. SENSOR OPERATED FAUCET SUPPLIED WITH 105° TEMPERED WATER FROM MIXING VALVE.

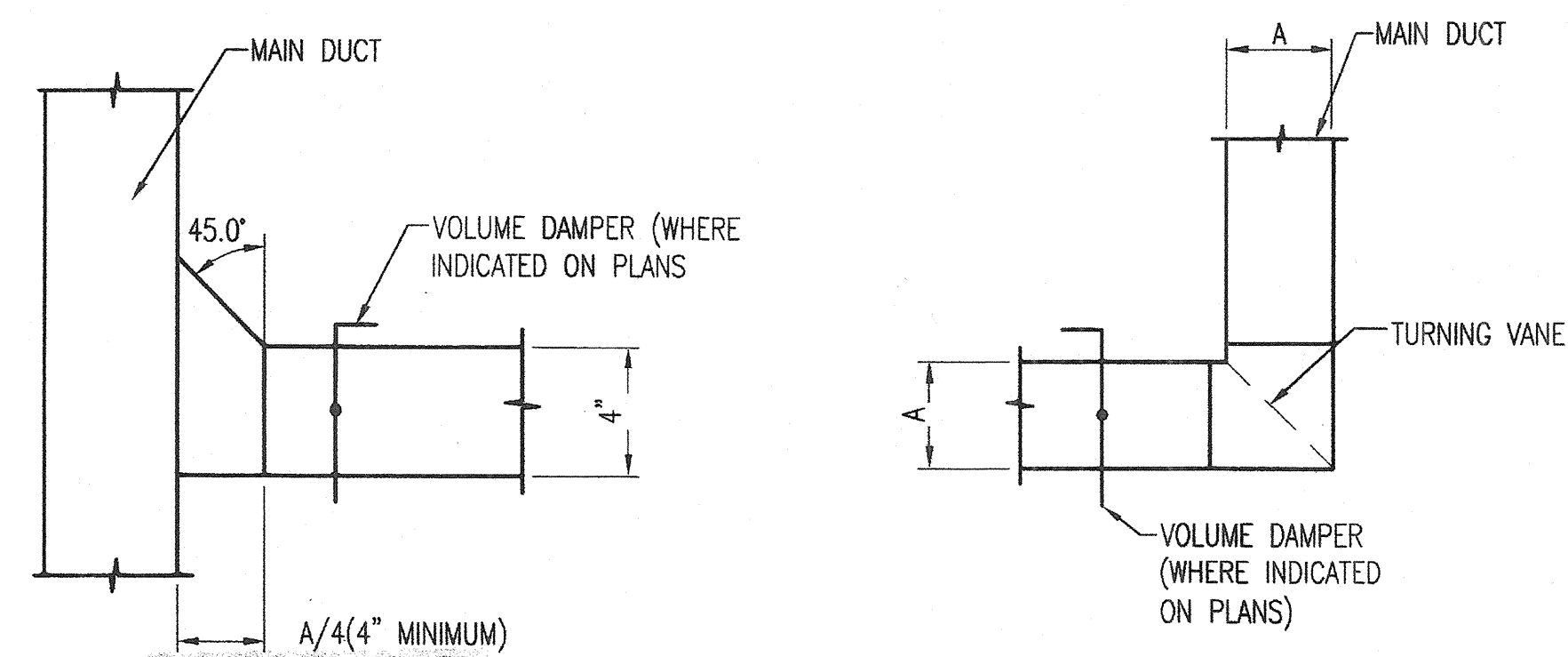
AIR DEVICE SCHEDULE									
UNIT ID	SERVICE	MOUNTING	NECK SIZE (IN)	FACE SIZE (IN)	CFM RANGE	MAX APD (IN WG)	MAX NC	BASIS OF DESIGN	DESCRIPTION
EG-1	EXHAUST GRILLE	SURFACE	12x6	14x8	0 - 190	0.10	30	TITUS 3 FL	3/4" SPACING, LONG FRONT BLADES AT 45 DEGREES
	EXHAUST GRILLE	SURFACE	18x6	20x8	191 - 300	0.10	30	TITUS 3 FL	3/4" SPACING, LONG FRONT BLADES AT 45 DEGREES
	EXHAUST GRILLE	SURFACE	18x12	20x14	301 - 600	0.10	30	TITUS 3 FL	3/4" SPACING, LONG FRONT BLADES AT 45 DEGREES
	EXHAUST GRILLE	SURFACE	24x12	26x14	601 - 650	0.10	32	TITUS 3 FL	3/4" SPACING, LONG FRONT BLADES AT 45 DEGREES

UNIT HEATER SCHEDULE									
UNIT ID	LOCATION	MOUNTING	HEAT SOURCE	CAPACITY (BTUH)	CAPACITY (W)	ELECTRICAL DATA		BASIS OF DESIGN	NOTES
						FLA	VOLTS/PH		
UH-1	WOMEN 4	WALL	ELECTRIC	10,235	3,000		208/1	QMARK AWH	1
UH-2	WOMEN 4	WALL	ELECTRIC	10,235	3,000		208/1	QMARK AWH	1
UH-3	WOMEN 4	WALL	ELECTRIC	10,235	3,000		208/1	QMARK AWH	1
UH-4	CHASE 5	WALL	ELECTRIC	10,235	3,000		208/1	QMARK AWH	1
UH-5	MEN 6	WALL	ELECTRIC	10,235	3,000		208/1	QMARK AWH	1
UH-6	MEN 6	WALL	ELECTRIC	10,235	3,000		208/1	QMARK AWH	1
UH-7	MEN 6	WALL	ELECTRIC	10,235	3,000		208/1	QMARK AWH	1
UH-8	STORAGE 2	WALL	ELECTRIC	10,235	3,000		208/1	QMARK AWH	1
UH-9	ELECTRICAL 1	WALL	ELECTRIC	10,235	3,000		208/1	QMARK AWH	1
UH-10	STORAGE 3	WALL	ELECTRIC	10,235	3,000		208/1	QMARK AWH	1

NOTES:  
1. PROVIDE WITH OPTIONAL 14 GAUGE SECURITY COVER.

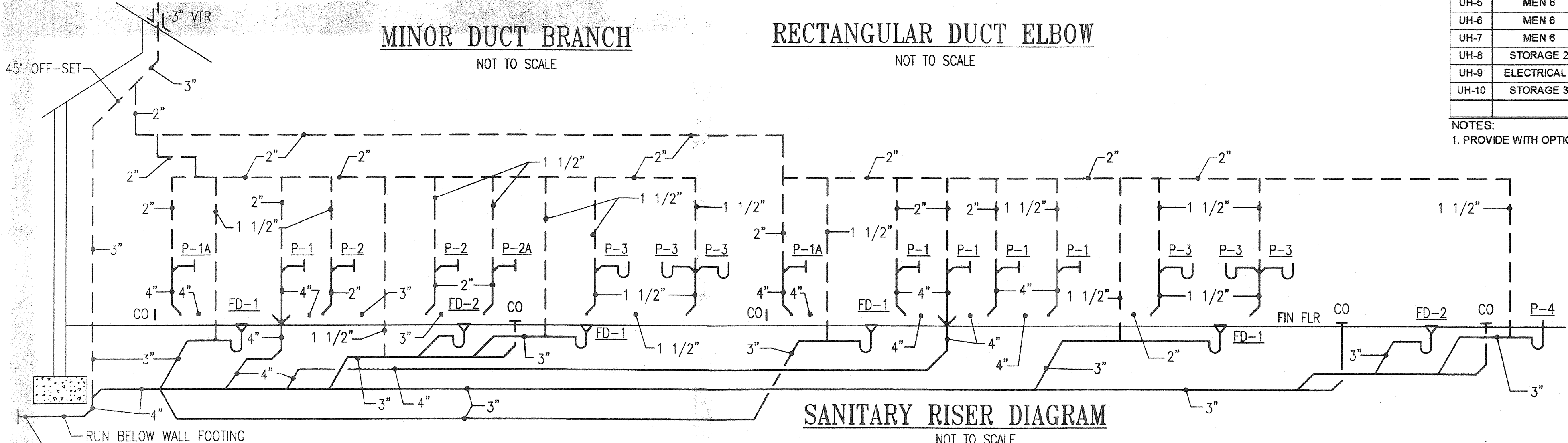
DOMESTIC WATER HEATER SCHEDULE								
UNIT ID	LOCATION	TYPE	CAPACITY INPUT (KW)	RECOVERY @ 100°F RISE (GPH)	STORAGE (GAL)	VOLTS/PH	BASIS OF DESIGN	REMARKS
DWH-1	CHASE 5	ELECTRIC	3	12	40	208/1	OA SMITH DEL	

EXPANSION TANK SCHEDULE						
UNIT ID	SERVICE	TYPE	ACCEPTANCE VOLUME (GALLONS)	PRESSURE		BASIS OF DESIGN
				PRECHARGE (PSI)	MAX OPER.	
ET-1	DWH-1	BLADDER	0.9	55	150	AMTROL ST-5-C

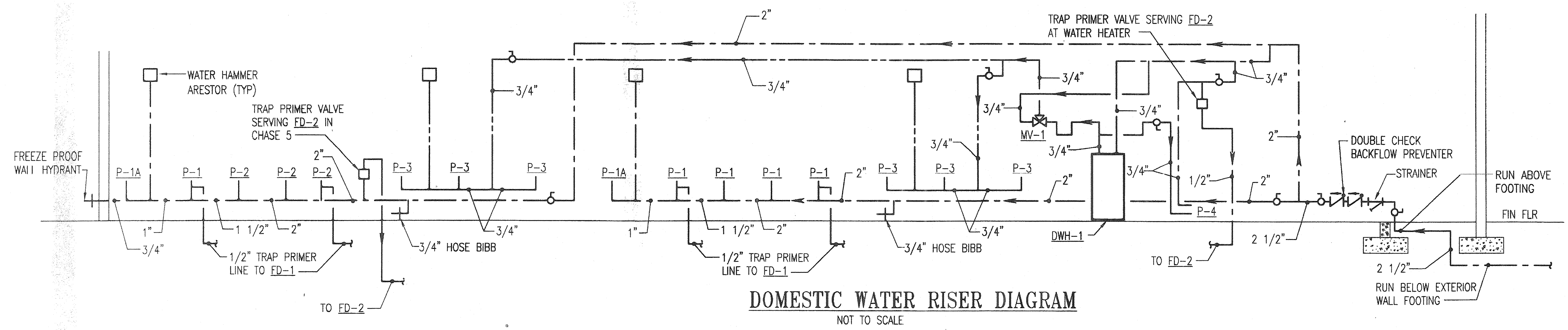


**MINOR DUCT BRANCH**  
NOT TO SCALE

**RECTANGULAR DUCT ELBOW**  
NOT TO SCALE



**SANITARY RISER DIAGRAM**  
NOT TO SCALE



**DOMESTIC WATER RISER DIAGRAM**  
NOT TO SCALE

REVISIONS	
BID SET	11/28/11

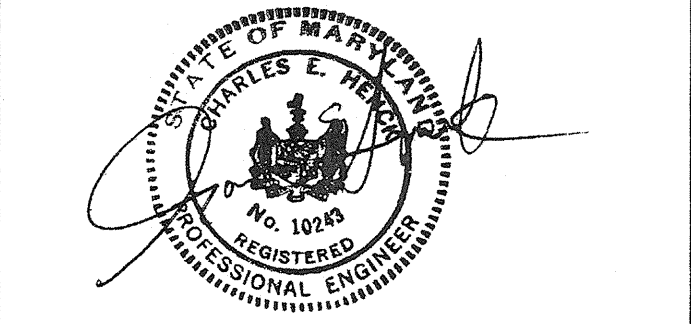
**HOWARD COUNTY**  
DEPARTMENT OF RECREATION AND PARKS  
7120 OAKLAND MILLS ROAD  
COLUMBIA, MD 21046  
DEPARTMENT OF PUBLIC WORKS  
9250 BENDIX ROAD  
ELLCOTT CITY, MD 21043

**WR&A**  
WHITMAN, REQUARDT & ASSOCIATES, LLP  
801 South Caroline Street, Baltimore, Maryland 21231  
Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY  
TAX MAP 36, GRID 5, PARCEL 3,72  
ZONING: RC-DEO  
ELECTION DISTRICT 3/7

GRAPHIC SCALES

SIGNATURE



PROFESSIONAL CERTIFICATION  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 10243  
EXPIRATION DATE: 02/01/2013

**BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT**

MECHANICAL SCHEDULES, DETAILS, AND PLUMBING RISER DIGRAMS

Drawing No.  
**M1.2**

Scale: AS NOTED  
Date: 11/28/2011 Sheet 45 of 55  
Des: ALM Drawn: PBF Check: CEH

PLOT DATE: 11/28/2011 9:00AM, AN PAGE SETUP, SETS: 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451,

BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

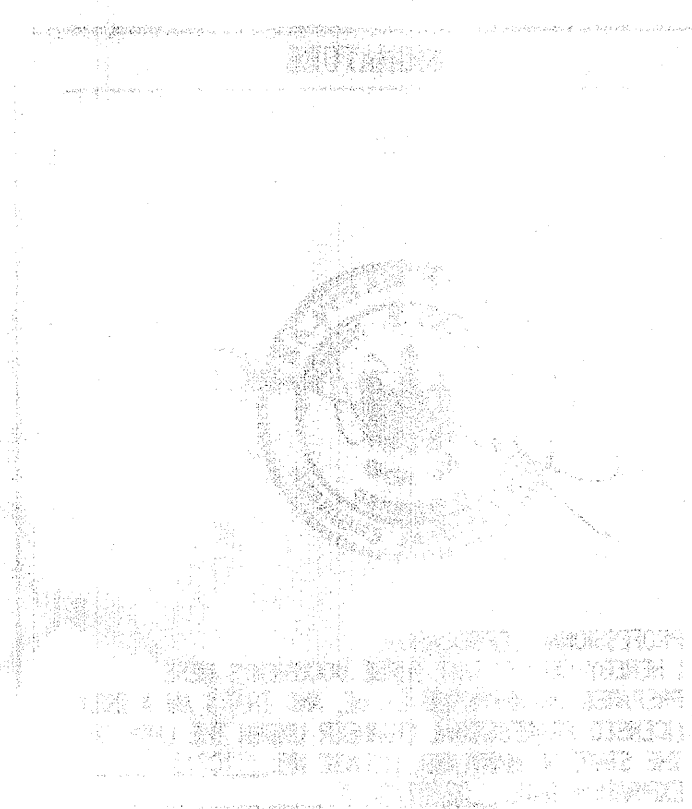
DEPARTMENT OF PUBLIC WORKS

BLANDAIR COUNTY

WHITMAN, REQUARDT & ASSOCIATES, LLP

REGISTERED PROFESSIONAL ENGINEERS

STATE OF MARYLAND



BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

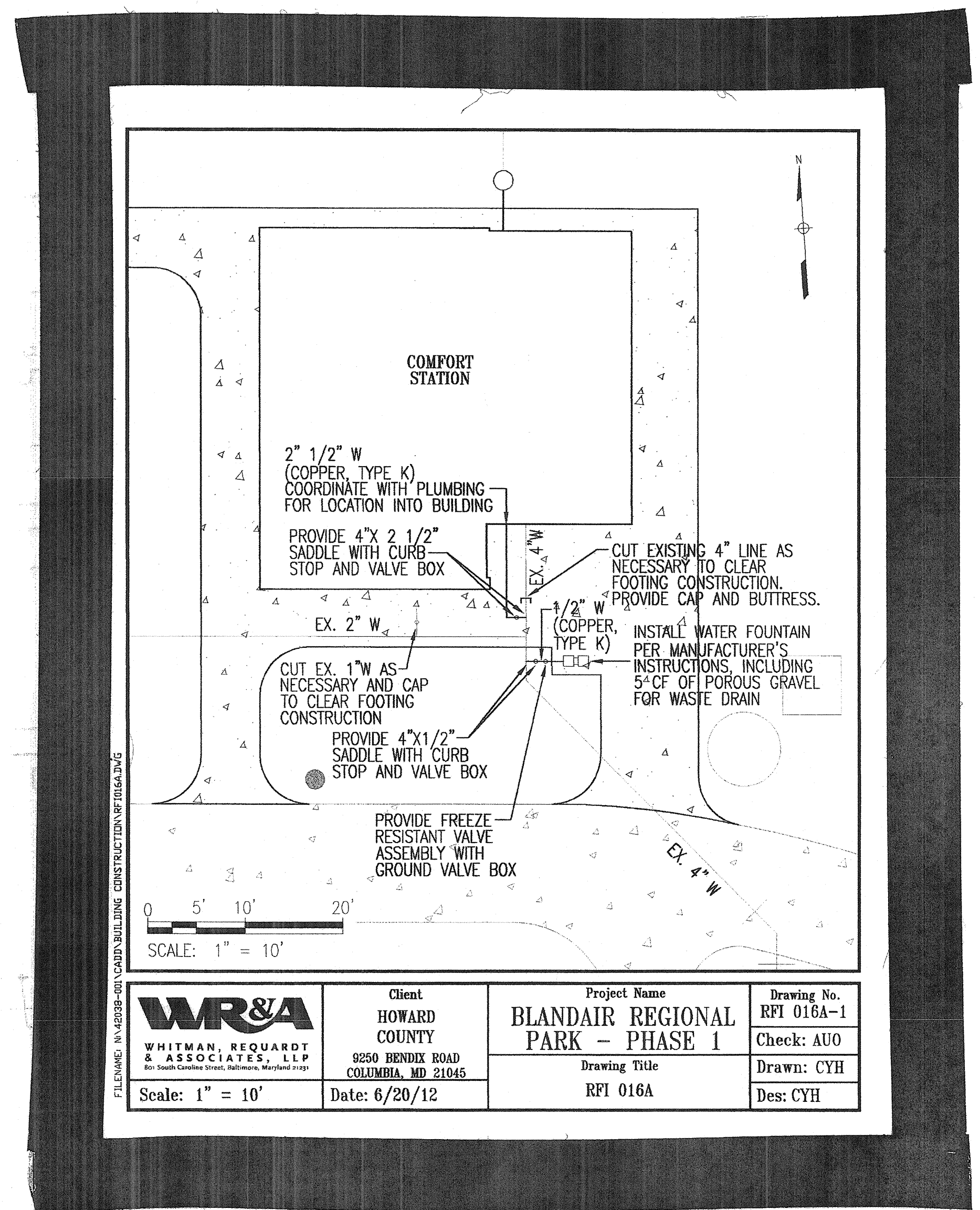
MECHANICAL, ELECTRICAL, AND PLUMBING

DATE: 6/20/12

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	6/20/12
2	ISSUED FOR CONSTRUCTION	6/20/12
3	ISSUED FOR AS-BUILT	6/20/12

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	6/20/12
2	ISSUED FOR CONSTRUCTION	6/20/12
3	ISSUED FOR AS-BUILT	6/20/12

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	6/20/12
2	ISSUED FOR CONSTRUCTION	6/20/12
3	ISSUED FOR AS-BUILT	6/20/12



<p>WHITMAN, REQUARDT &amp; ASSOCIATES, LLP 3250 HENDIX ROAD COLUMBIA, MD 21045</p>	<p>Client</p> <p>HOWARD COUNTY</p> <p>9250 HENDIX ROAD COLUMBIA, MD 21045</p>	<p>Project Name</p> <p>BLANDAIR REGIONAL PARK - PHASE 1</p> <p>Drawing Title</p> <p>RFI 016A</p>	<p>Drawing No.</p> <p>RFI 016A-1</p> <p>Check: AUO</p> <p>Drawn: CYH</p> <p>Des: CYH</p>
	<p>Date: 6/20/12</p>	<p>Scale: 1" = 10'</p>	<p>Des: CYH</p>





RFI Transmittal

RFI ID: RFI-064  
Transmittal ID: 00356  
Date Sent: 12/10/2012

Project: Blandair Park-Phase I  
Number: 0811.1

To: Bert Bunn  
Ithana  
3660 Bessemer Road  
Mount Pleasant, SC 29466  
United States  
843-566-7800 (Phone)  
843-566-7841 (Fax)




From: Brian Dunn  
GWWO, Inc./Architects  
800 Wyman Park  
Suite 300  
Baltimore, MD 21211  
US  
(410) 332-1009 x5076 (Phone)  
(410) 332-0038 (Fax)

Subject: Flushometer Transformer Wiring  
Via: Email  
Purpose: Answered





Question: Per project specifications the electrician is allowed to run up to 3 circuits for every 1" conduit. Per NEC code you are allowed up to 15 #10 wire in a Schedule 40 1" conduit; six circuits. Is it acceptable to run 4 circuits in existing 1" conduit that runs from Panel R to chase room in order to feed power to transformers for the plumber's flushometers?

Suggestion:  
Answer: The electrician is correct that the code permits 15#10 (THHN-THWN) conductors in a 1" PVC schedule 40 conduit. According to the drawings the flushometers are connected to a 20-amp circuit so #12 conductors are to be used and since the flushometers are rated at 120-volts, the neutral conductor must be considered a current carrying conductor. It is acceptable to install 4 circuits within the 1" conduit, but an adjustment factor must be applied to the current conductors in accordance with Table 310.15(B)(3)(a):  
4-6 conductors 80% ampacity of value in Table 310.15(B)(16)  
7-9 conductors 70% ampacity of value in Table 310.15(B)(16)  
10-20 conductors 50% ampacity of value in Table 310.15(B)(16)  
See WERA response sheet for additional information.




**LIGHTING**

-  FLUORESCENT LIGHTING FIXTURE
-  DOWNLIGHT
-  LIGHTING FIXTURE TYPE SYMBOL (SEE LIGHTING FIXTURE SCHEDULE ON DRAWING E6.2)




**SWITCHES**

-  SINGLE POLE SWITCH, 20A, 120-277V
-  LIGHTING CONTACTOR (X POLE) 277V
-  OCCUPANCY SENSOR WITH DUAL TECHNOLOGY. PROVIDE POWER PACK AS REQUIRED (WALL, CEILING)
-  PHOTO CELL






**RECEPTACLES**

-  DUPLEX CONVENIENCE RECEPT., 20A, 125V AC, MOUNT 1'-6" AFF (UON)
-  DUPLEX CONVENIENCE RECEPTACLE 20A, 125V AC. SUBSCRIPT "G" INDICATES GFI TYPE, MOUNT 18" AFF (UON)
-  DUPLEX CONVENIENCE RECEPTACLE 20A, 125V AC. SUBSCRIPT "G" INDICATES GFI TYPE, MOUNT 12" ABOVE COUNTER (UON)






**PANELBOARDS**

-  ELECTRICAL PANELBOARD
-  ELECTRICAL PANELBOARD (208Y/120V, 3φ, 4W)
-  ELECTRICAL PANELBOARD (480Y/277V, 3φ, 4W)



**SAFETY SWITCHES/BREAKERS/STARTERS**

-  NON-FUSED DISCONNECT SWITCH, SUBSCRIPT INDICATES AMPACITY AND NUMBER OF POLES
-  FUSED DISCONNECT SWITCH, SUBSCRIPT INDICATES FUSED SIZE AND NUMBER OF POLES
-  MAGNETIC MOTOR STARTER, SUBSCRIPT INDICATES NEMA SIZE 2, NEMA SIZE 1 STARTER UON
-  MAGNETIC MOTOR STARTER, SUBSCRIPT INDICATES NEMA SIZE 2, NEMA SIZE 1 STARTER UON. 60 = SWITCH SIZE AND 3 = NO. OF POLE. 30AMPS, 3 POLES UON
-  MANUAL MOTOR STARTER SWITCH WITH OVERLOAD. PROVIDE HOA AS REQUIRED


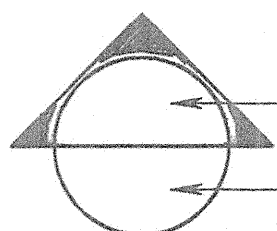

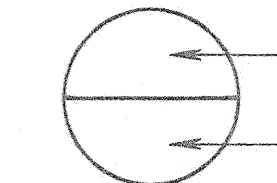

**EQUIPMENT CONNECTION**

-  MOTOR, NUMBER INDICATES HORSEPOWER
-  JUNCTION BOX
-  EQUIPMENT CONNECTION AS NOTED
-  DOMESTIC WATER HEATER
-  MOTOR OPERATED DAMPER








**GROUNDING**

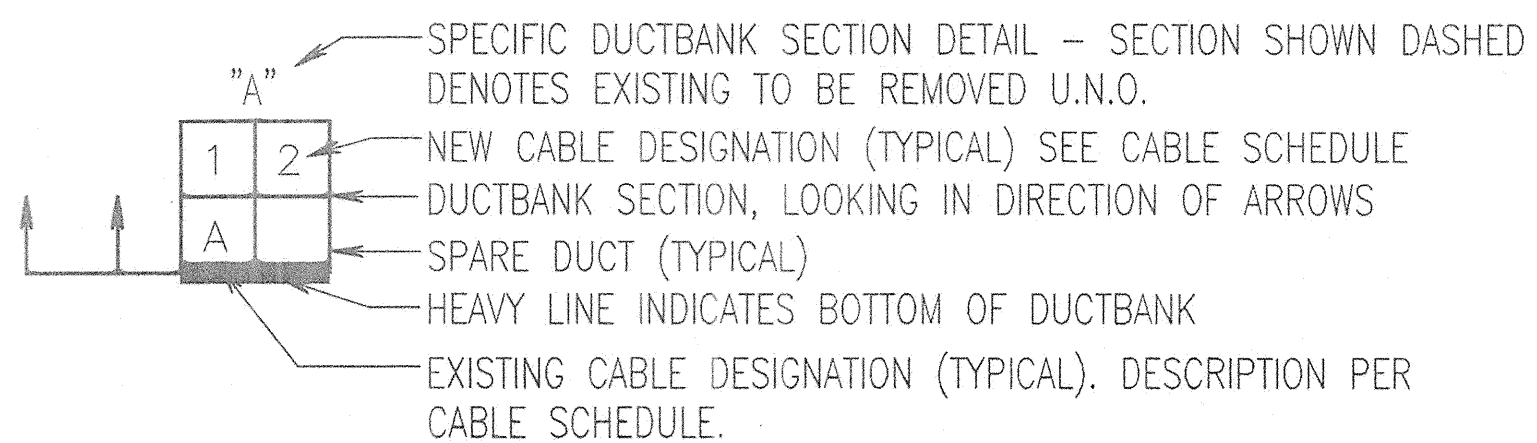
-  GROUND ROD, 3/4" DIAMETER x 10'-0" LONG UON
-  AIR TERMINAL

**MISCELLANEOUS**

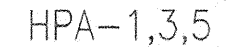



-  SPECIFIC NOTE NUMBER
-  SECTION NUMBER
-  DRAWING NUMBER WHERE SHOWN
-  DETAIL NUMBER
-  DRAWING NUMBER WHERE SHOWN

**UNDERGROUND/SITE WORK**

-  GROUND CONDUCTOR
-  HANDHOLE
-  UNDERGROUND DUCTBANK
-  HANDHOLE
-  SINGLE LIGHTING FIXTURE - METAL HALIDE POLE MOUNTED
-  DOUBLE LIGHTING FIXTURE - METAL HALIDE POLE MOUNTED
-  SPORTS LIGHTING ASSEMBLY - NUMBER OF LUMINAIRES AS INDICATED IN LIGHTING FIXTURE SCHEDULE



**WIRING**

-  HPA-1,3,5 BRANCH CIRCUIT HOMERUN TO PANELBOARD, HPA DENOTES TO PANEL HPA AND NUMERALS IDENTIFY CIRCUIT NUMBERS. ARROWS DENOTE NO. OF CIRCUITS
-  CONDUIT WITH WIRES, #12 AWG IN 3/4"C. UNLESS OTHERWISE NOTED, NUMBER OF CONDUCTORS AS REQUIRED. FOR 3 PHASE, 208/120V OR 480/277V CIRCUITS IN ONE HOMERUN (FOR RECEPTACLES AND LIGHTING CIRCUITS), PROVIDE 4 WIRES AND GROUND. PROVIDE SEPARATE NEUTRALS FOR ALL OTHER MULTIPLE SINGLE PHASE CIRCUITS IN ONE HOMERUN.
-  INDICATES A CONDUIT RUN CONCEALED IN CEILING, WALL, FLOOR, OR ABOVE SUSPENDED CEILING (UON)
-  GROUNDING CONDUCTOR (BCSD)

**ABBREVIATIONS**

**DESCRIPTION**

A, AMP	AMPERE
&	AND
AC	ALTERNATING CURRENT
AF	AMPERE FRAME
AFF	ABOVE FINISHED/ RAISED FLOOR
AIC	SYMMETRICAL AMPERES INTERRUPTING
AHU	AIR HANDLING UNIT
AT	AMPERE TRIP
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
BKR	BREAKER
C	CONDUIT
C.B.	CIRCUIT BREAKER
CKT	CIRCUIT
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CS	CONTROL SWITCH (CLOSE/TRIP)
CT	CURRENT TRANSFORMER
DC	DIRECT CURRENT
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
EA	EACH
E.F.	EXHUAUST FAN
ELEC	ELECTRICAL
EM, EMERG	EMERGENCY
EQUIP	EQUIPMENT
EXIST	EXISTING
ENCL	ENCLOSURE
FLA	FULL LOAD AMPERES
G,GND	GROUND
GFI	GROUND FAULT INTERRUPTER
HP	HORSE POWER
HZ	HERTZ
J.B.	JUNCTION BOX
KAIC	KILO AMPERES INTERRUPTING CAPACITY
KVA	KILOVOLT AMPERE
KW	KILOWATT
LC	LOAD CENTER
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MH	MOUNTING HEIGHT
MIN	MINIMUM
MLO	MAIN LUG ONLY
MOD	MOTOR OPERATED DAMPER
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFSS	NON-FUSIBLE SAFETY SWITCH
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
P	POLE
PH,Ø	PHASE
PNL	PANEL
PM	POWER MONITOR
RCPT	RECEPTACLE
REQD	REQUIRED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
SPST	SINGLE POLE SINGLE THROW
SW	SWITCH
SYMM	SYMMETRICAL
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UH	UNIT HEATER
V	VOLT, VOLTAGE
W	WIRE, WATT
WP	WEATHERPROOF
XFMR	TRANSFORMER

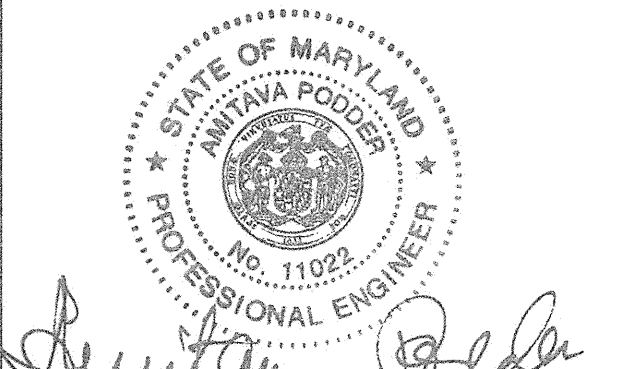
REVISIONS	
BID SET	11/28/11

**HOWARD COUNTY**  
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 DEPARTMENT OF PUBLIC WORKS  
 9250 BENDIX ROAD  
 ELLICOTT CITY, MD 21043

**WR&A**  
 WHITMAN, REQUARDT & ASSOCIATES, LLP  
 801 South Caroline Street, Baltimore, Maryland 21231  
 Phone: 410-235-3450 Fax: 410-243-5716

**PROPERTY**  
 TAX MAP 36, GRID 5, PARCEL 3,72  
 ZONING: RC-DEO  
 ELECTION DISTRICT 3/7

**GRAPHIC SCALES**

**SIGNATURE**  
  
 PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 11022. EXPIRATION DATE: 7/22/12

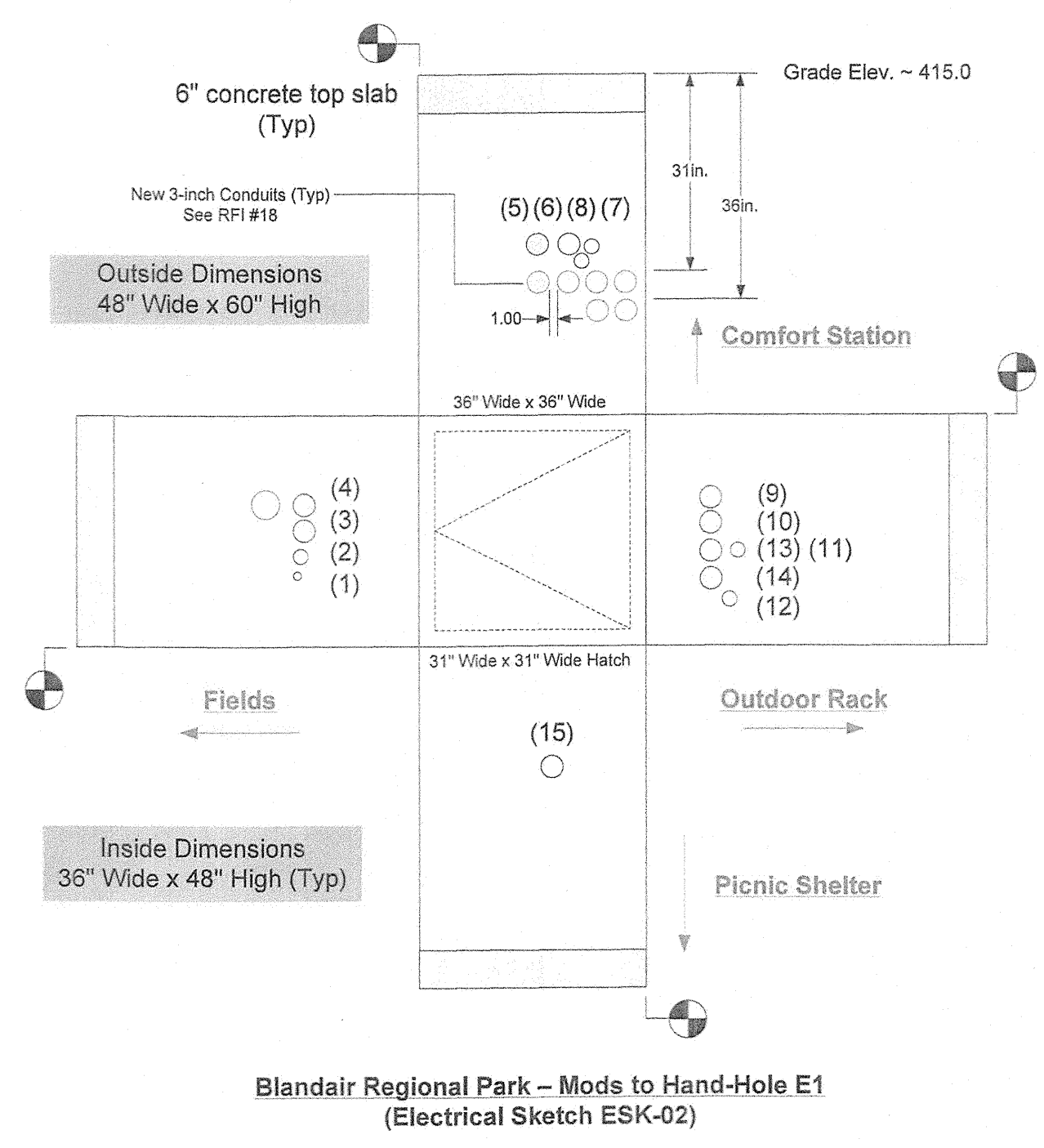
**BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT**

**ELECTRICAL LEGEND, NOTES & ABBREVIATIONS**  
 Drawing No. **E0.1**  
 Scale: NONE  
 Date: 11/28/2011 Sheet 47 of 55  
 Des: JVL Drawn: AGT Check: AP

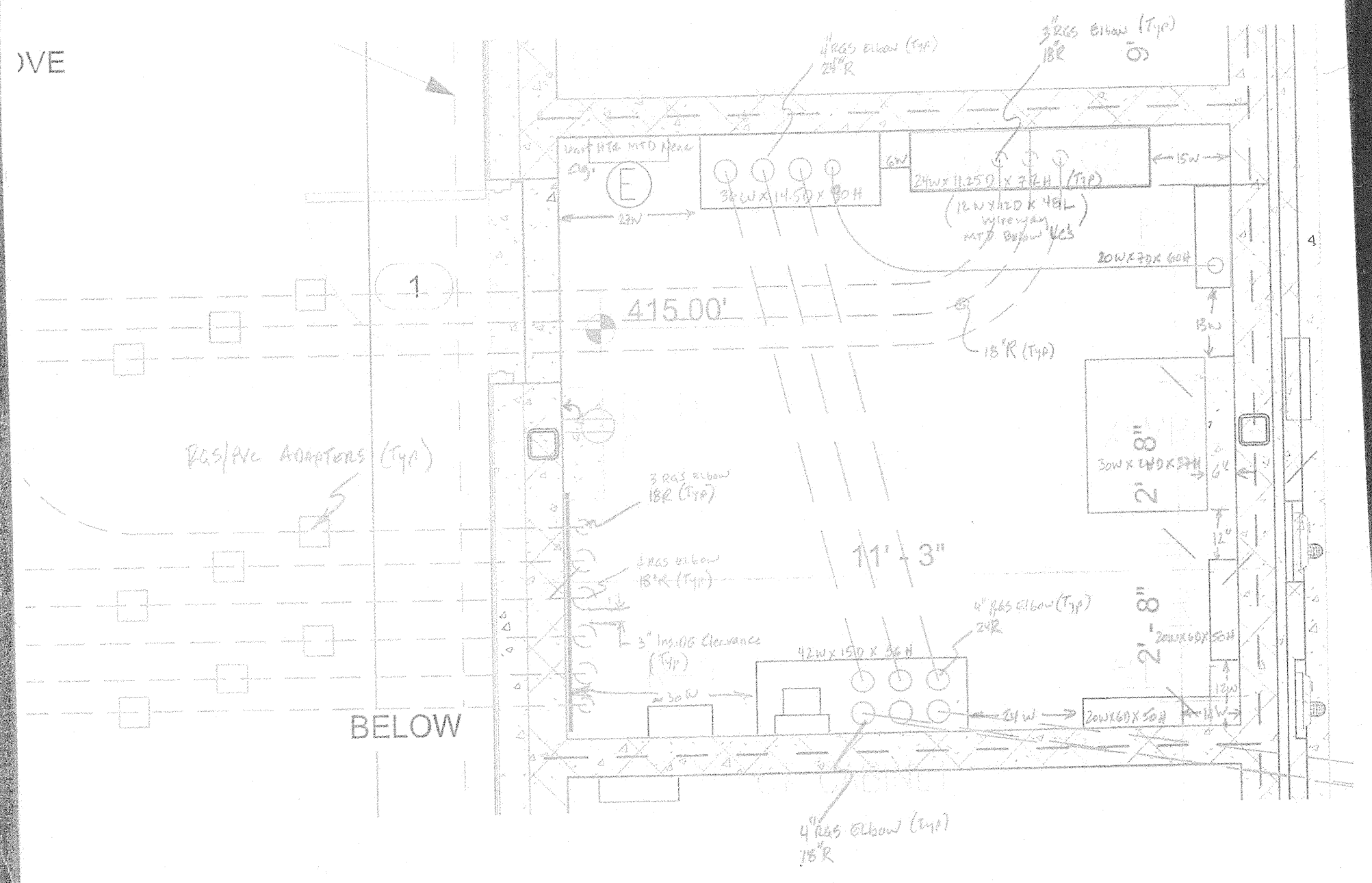






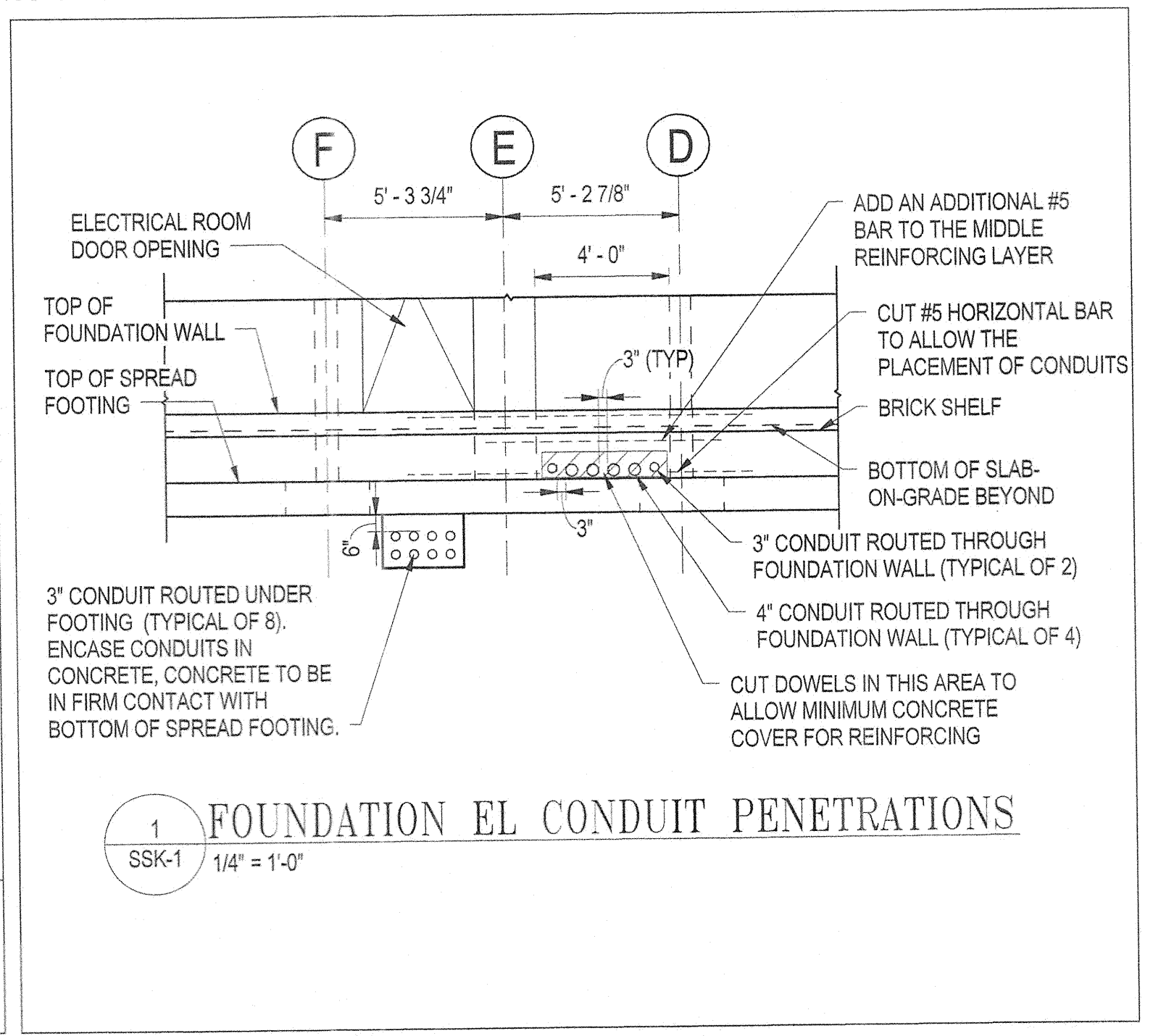


Blandair Regional Park - Mods to Hand-Hole E1  
(Electrical Sketch ESK-02)

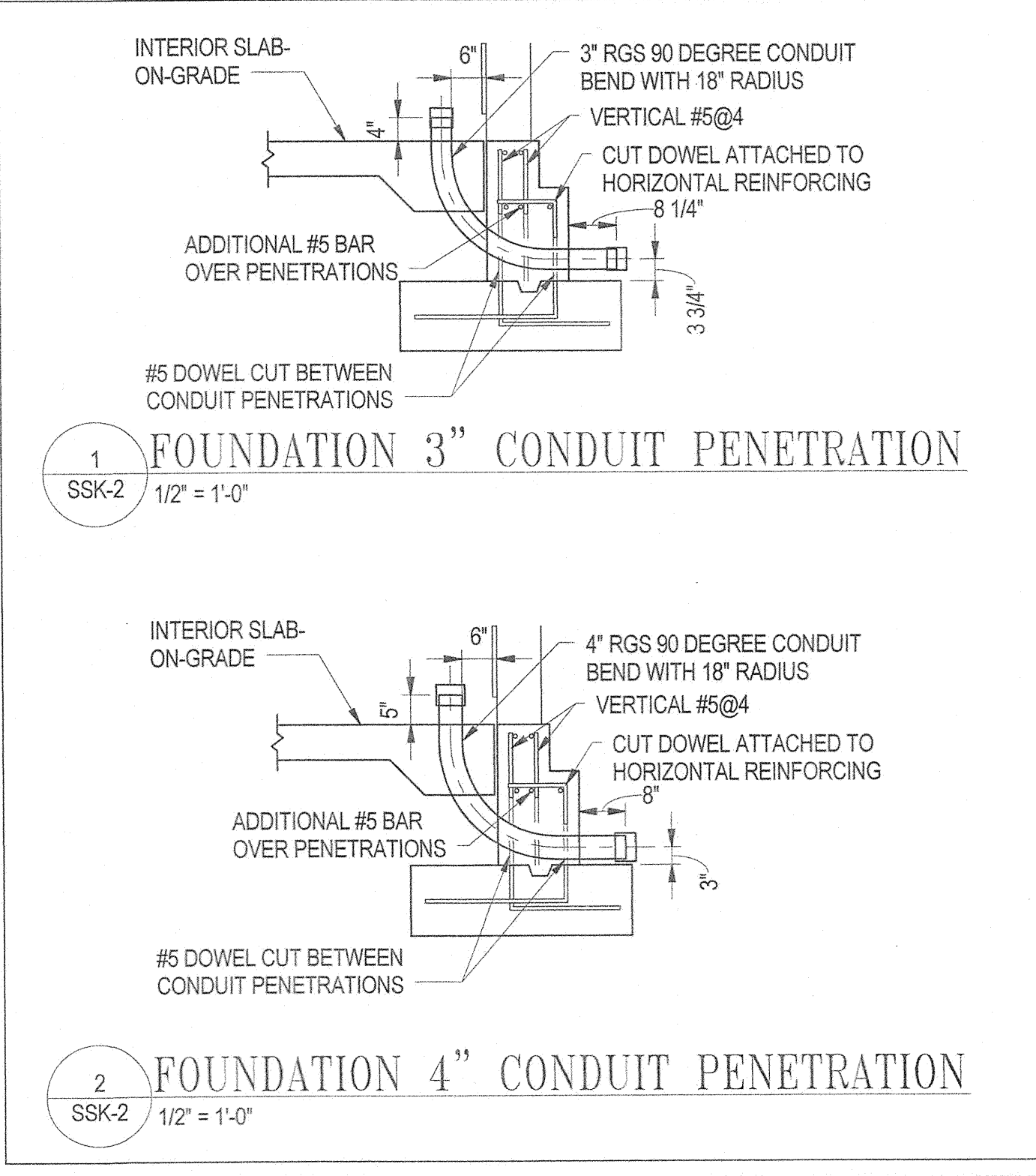


7/20/2012 9:03:11 AM

 WHITMAN, REQUARDT & ASSOCIATES, LLP 100 South Center Street, Baltimore, Maryland 21201 Tel: 410-528-1100 Fax: 410-528-1101	Client	HOWARD COUNTY	Drawing No.	SSK-1
	Project Name	BLANDAIR PARK	Check:	WC
	Drawing Title	CONDUIT FOUNDATION PENETRATIONS	Drawn:	HLH
	Scale:	1/4" = 1'-0"	Des:	HLH



1 FOUNDATION EL CONDUIT PENETRATIONS  
SSK-1 1/4" = 1'-0"



1 FOUNDATION 3" CONDUIT PENETRATION  
SSK-2 1/2" = 1'-0"

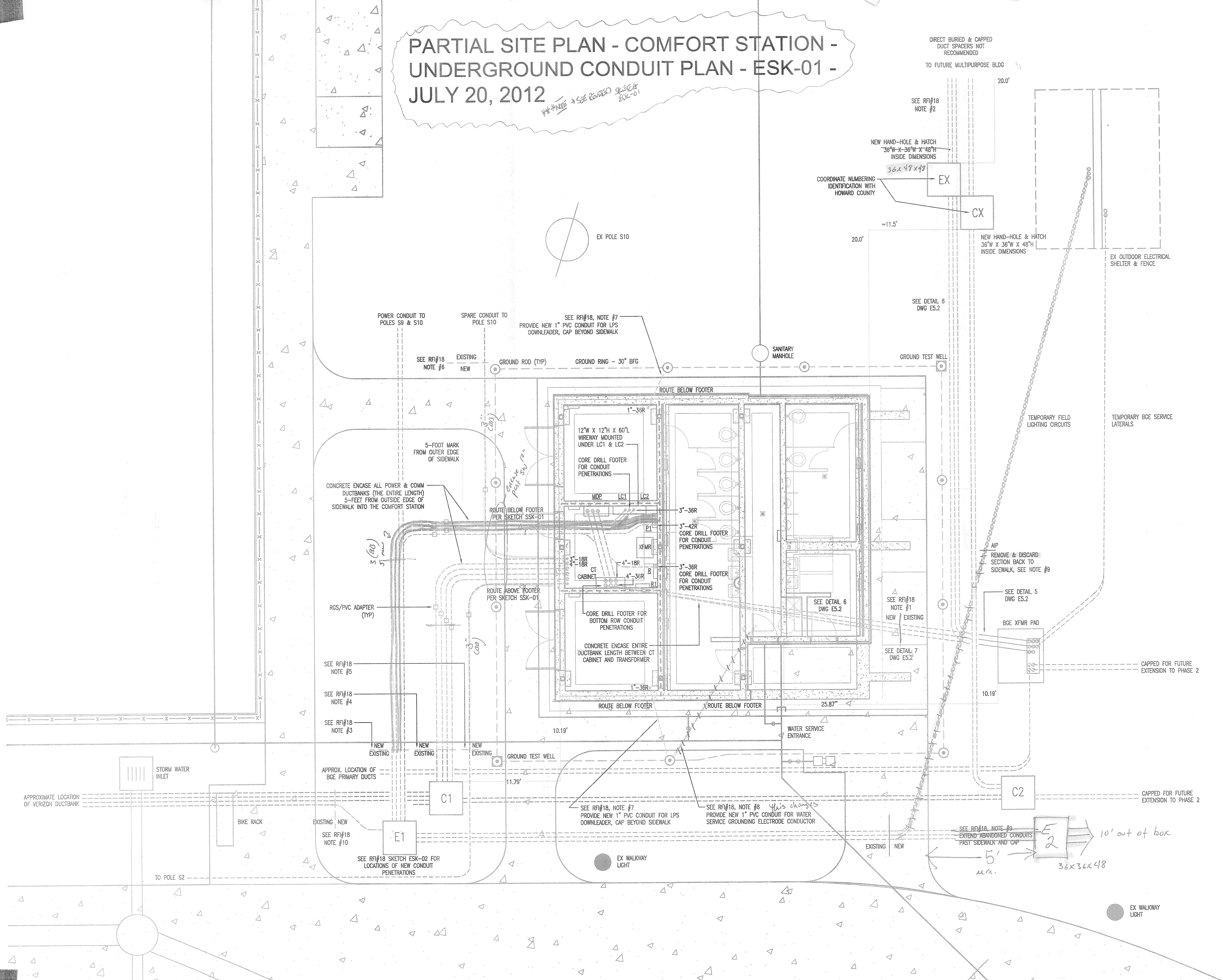
2 FOUNDATION 4" CONDUIT PENETRATION  
SSK-2 1/2" = 1'-0"

 WHITMAN, REQUARDT & ASSOCIATES, LLP 100 South Center Street, Baltimore, Maryland 21201 Tel: 410-528-1100 Fax: 410-528-1101	Client	HOWARD COUNTY	Drawing No.	SSK-2
	Project Name	BLANDAIR PARK	Check:	WC
	Drawing Title	CONDUIT FOUNDATION PENETRATIONS	Drawn:	HLH
	Scale:	1/2" = 1'-0"	Des:	HLH

7/20/2012 9:03:57 AM

# PARTIAL SITE PLAN - COMFORT STATION - UNDERGROUND CONDUIT PLAN - ESK-01 - JULY 20, 2012

*Handwritten note: SEE REVISION SKETCH ESK-01*



DIRECT BURIED & CAPPED  
DUCT SPACERS NOT  
RECOMMENDED  
TO FUTURE MULTIPURPOSE BLDG

SEE RFI#18  
NOTE #2

NEW HAND-HOLE & HATCH  
36\"/>

COORDINATE NUMBERING  
IDENTIFICATION WITH  
HOWARD COUNTY

NEW HAND-HOLE & HATCH  
36\"/>

EX OUTDOOR ELECTRICAL  
SHELTER & FENCE

SEE DETAIL 8  
DWG E5.2

POWER CONDUIT TO  
POLES S9 & S10

SPARE CONDUIT TO  
POLE S10

SEE RFI#18, NOTE #7  
PROVIDE NEW 1\"/>

SEE RFI#18  
NOTE #6

EXISTING  
NEW

GROUND ROD (TYP)

GROUND RING - 30\"/>

SANITARY  
MANHOLE

GROUND TEST WELL

CONCRETE ENCASE ALL POWER & COMM  
DUCTBANKS (THE ENTIRE LENGTH)  
5- FEET FROM OUTSIDE EDGE OF  
SIDEWALK INTO THE COMFORT STATION

SEE RFI#18  
NOTE #5

SEE RFI#18  
NOTE #4

SEE RFI#18  
NOTE #3

APPROX. LOCATION OF  
BGE PRIMARY DUCTS

SEE RFI#18  
NOTE #10

SEE RFI#18 SKETCH ESK-02 FOR  
LOCATIONS OF NEW CONDUIT  
PENETRATIONS

ROUTE BELOW FOOTER  
PER SKETCH SSK-01

ROUTE ABOVE FOOTER  
PER SKETCH SSK-01

SEE RFI#18, NOTE #7  
PROVIDE NEW 1\"/>

SEE RFI#18, NOTE #8  
PROVIDE NEW 1\"/>

SEE RFI#18  
NOTE #1  
NEW / EXISTING

SEE DETAIL 7  
DWG E5.2

REMOVE & DISCARD  
SECTION BACK TO  
SIDEWALK, SEE NOTE #9

SEE DETAIL 5  
DWG E5.2

CAPPED FOR FUTURE  
EXTENSION TO PHASE 2

CAPPED FOR FUTURE  
EXTENSION TO PHASE 2

SEE RFI#18, NOTE #9  
EXTEND ABANDONED CONDUITS  
PAST SIDEWALK AND CAP

10' out of box

EX WALKWAY  
LIGHT

TO POLE S2

STORM WATER  
INLET

BIKE RACK

EX WALKWAY  
LIGHT

5'

36x36x48

M.M.

**AIA® Document G710™ - 1992**

**Architect's Supplemental Instructions**

**PROJECT (Name and address):** ARCHITECT'S SUPPLEMENTAL INSTRUCTION NO: 007  
 Blandair Park-Phase I  
 Blandair Regional Park  
 Oakland Mills Rd  
 Columbia MD

**OWNER (Name and address):** DATE OF ISSUANCE: 02/01/13  
 Howard County Maryland  
 6751 Columbia Gateway Dr  
 Suite 501  
 Columbia MD 21046

**FROM ARCHITECT (Name and address):** CONTRACT FOR: General Construction  
 GWWO Architects Inc  
 800 Wyman Park Dr  
 Suite 300  
 Baltimore MD 21211

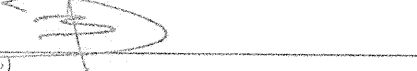
**TO CONTRACTOR (Name and address):** ARCHITECT'S PROJECT NUMBER:  
 0811.2  
 Ikhana, LLC  
 6751 Noisette Blvd  
 Suite 106A  
 North Charleston, SC 29405

**OWNER:**   
**ARCHITECT:**   
**CONSULTANT:**   
**CONTRACTOR:**   
**FIELD:**   
**OTHER:**

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Proceeding with the Work in accordance with these instructions indicates your acknowledgment that there will be no change in the Contract Sum or Contract Time.

**DESCRIPTION:**  
 Relocate light fixture type G from column line B to the center of the bay between column lines B and C. Center in bay adjacent to current location. Attach to underside of roof decking.

**ATTACHMENTS:**  
 (Here insert listing of documents that support description.)  
 N/A

**ISSUED BY THE ARCHITECT:**  
  
 Brian Dunn Construction Coordinator  
 (Printed name and title)

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**ARCHITECTS G|W W|O**  
 GWWO, Inc./Architects | 800 Wyman Park Suite 300 Baltimore, MD 21211 US

**RFI Transmittal**

RFI ID: RFI-065  
 Transmittal ID: 00361  
 Date Sent: 12/19/2012

**Project:** Blandair Park-Phase I  
**Number:** 0811.1

**To:** Bert Bunn  
 Ikhana  
 3660 Bessemer Road  
 Mount Pleasant, SC 29466  
 United States  
 843-566-7800 (Phone)  
 843-566-7841 (Fax)

**From:** Brian Dunn  
 GWWO, Inc./Architects  
 800 Wyman Park  
 Suite 300  
 Baltimore, MD 21211  
 US  
 (410) 332-1009 x5076 (Phone)  
 (410) 332-0038 (Fax)

**Subject:** Exterior Conduit Run  
**Via:** Email  
**Purpose:** Answered  
**Question:** Please see attached for proposed conduit run for photo cell and type G and H exterior fixtures.  
 Per project specs the Electrician is allowed up to 3 90 degree bends. Is it acceptable to have up to 4 90 degree bends for the proposed exterior conduit run attached to the underside of the T&G decking at the Comfort Station?

**Suggestion:**  
**Answer:** It is acceptable. Locate conduit in the field.  
**CC:** Walt Lewis(Ikhana)  
 Mark Kovach(Howard County Department of Public Works)  
 Bill Roesler(Howard County Department of Public Works)  
 Jim Jett(Whitman, Requardt & Associates, LLP)  
 Steve Mack(WRA)

**Description of Contents**

Quantity	Title	Number	Date	Scale	Size
1	RFI #65 Proposed Exterior Conduit Run.pdf		12/7/2012		

**ARCHITECTS G|W W|O**  
 GWWO, Inc./Architects | 800 Wyman Park Suite 300 Baltimore, MD 21211 US

**RFI Transmittal**

RFI ID: RFI-066  
 Transmittal ID: 00355  
 Date Sent: 12/10/2012

**Project:** Blandair Park-Phase I  
**Number:** 0811.1

**To:** Bert Bunn  
 Ikhana  
 3660 Bessemer Road  
 Mount Pleasant, SC 29466  
 United States  
 843-566-7800 (Phone)  
 843-566-7841 (Fax)

**From:** Brian Dunn  
 GWWO, Inc./Architects  
 800 Wyman Park  
 Suite 300  
 Baltimore, MD 21211  
 US  
 (410) 332-1009 x5076 (Phone)  
 (410) 332-0038 (Fax)

**Subject:** Low Voltage Wiring for Doors  
**Via:** Email  
**Purpose:** Answered  
**Question:** Please provide detail showing required path of low voltage wire feeding from ELEC room into hinge side of the door slabs leading into the Men's and Women's Bathrooms

**Suggestion:**  
**Answer:** The only path requirement for the low voltage wiring is that it remains un-accessible by the general public. This requires all low voltage wiring to be installed within the shell of the comfort station and in conduit.

**CC:** See response sheet by WRA for additional information.  
 Walt Lewis(Ikhana)  
 Mark Kovach(Howard County Department of Public Works)  
 Bill Roesler(Howard County Department of Public Works)  
 Steve Mack(WRA)  
 Jim Jett(Whitman, Requardt & Associates, LLP)  
 Eric Feiss(GWWO, Inc./Architects)

**Description of Contents**

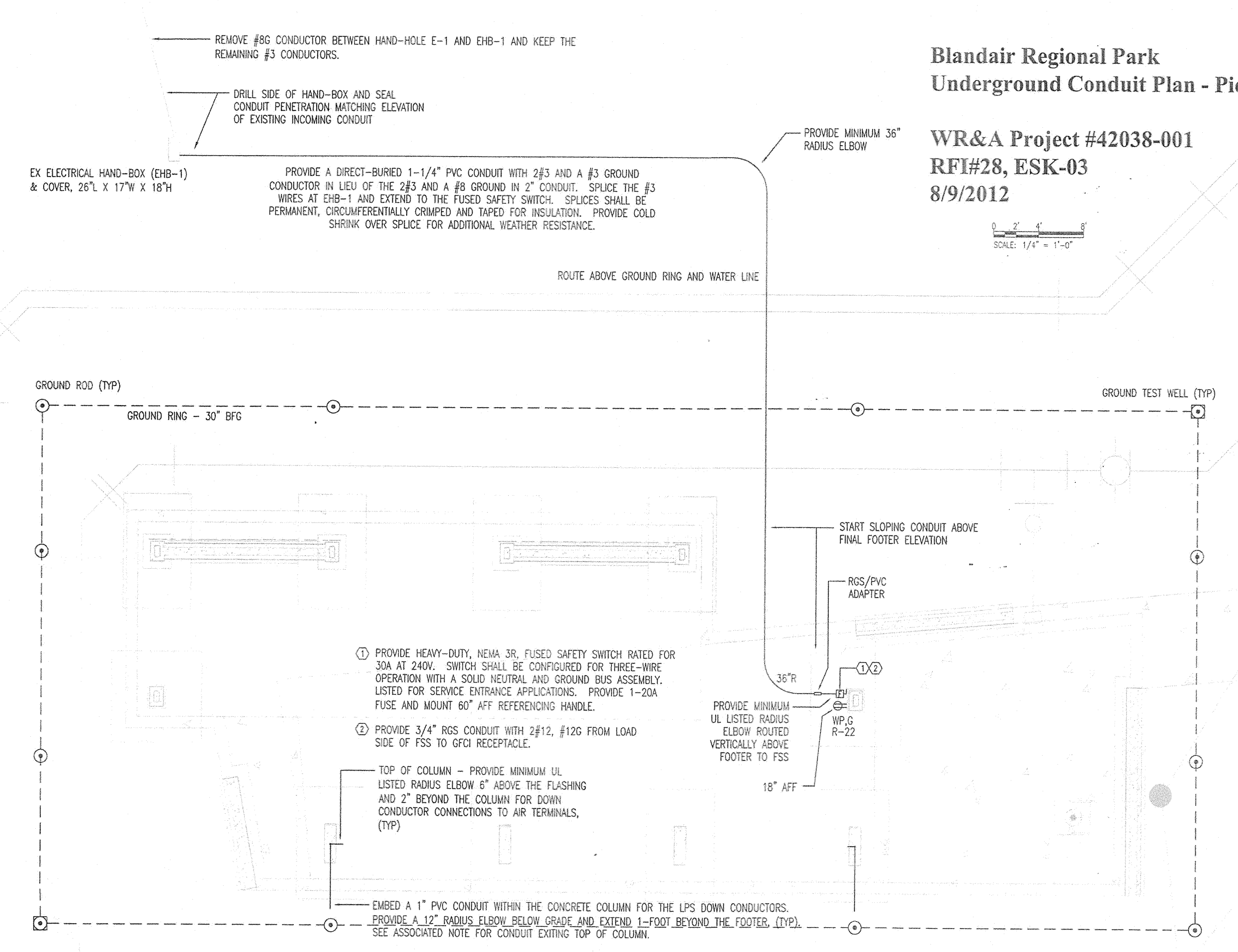
Quantity	Title	Number	Date	Scale	Size
1	RFI #66 LV wiring path for Electric Door Locks.pdf		12/7/2012		
1	RFI-066 Electric Door Locks-Response.pdf		12/10/2012		



Blandair Regional Park  
Underground Conduit Plan - Picnic Shelter

WR&A Project #42038-001  
RFI#28, ESK-03  
8/9/2012

SCALE: 1/4" = 1'-0"



REMOVE #6 CONDUCTOR BETWEEN HAND-HOLE E-1 AND EHB-1 AND KEEP THE REMAINING #3 CONDUCTORS.

DRILL SIDE OF HAND-BOX AND SEAL CONDUIT PENETRATION MATCHING ELEVATION OF EXISTING INCOMING CONDUIT

EX ELECTRICAL HAND-BOX (EHB-1) & COVER, 26" X 17" X 18"

PROVIDE A DIRECT-BURIED 1-1/4" PVC CONDUIT WITH 2#3 AND A #3 GROUND CONDUCTOR IN LIEU OF THE 2#3 AND A #3 GROUND IN 2" CONDUIT. SPLICE THE #3 WIRES AT EHB-1 AND EXTEND TO THE FUSED SAFETY SWITCH. SPLICES SHALL BE PERMANENT, CIRCUMFERENTIALLY CRAMPED AND TAPED FOR INSULATION. PROVIDE COLD SHRINK OVER SPLICE FOR ADDITIONAL WEATHER RESISTANCE.

PROVIDE MINIMUM 36" RADIUS ELBOW

ROUTE ABOVE GROUND RING AND WATER LINE

GROUND ROD (TYP)

GROUND RING - 30' BFC

GROUND TEST WELL (TYP)

START SLOPING CONDUIT ABOVE FINAL FOOTER ELEVATION

RCS/PVC ADAPTER

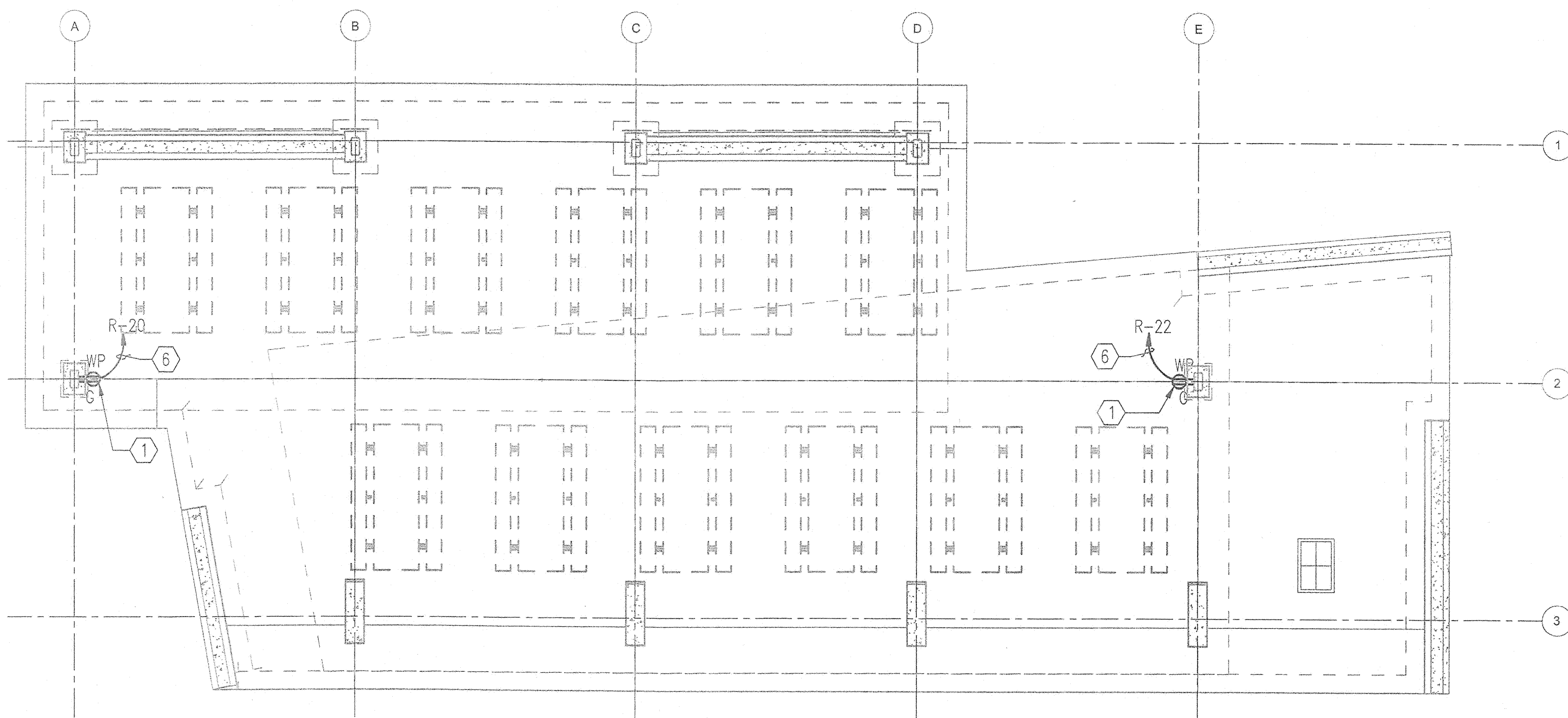
① PROVIDE HEAVY-DUTY, NEMA 3R, FUSED SAFETY SWITCH RATED FOR 30A AT 240V. SWITCH SHALL BE CONFIGURED FOR THREE-WIRE OPERATION WITH A SOLID NEUTRAL AND GROUND BUS ASSEMBLY. LISTED FOR SERVICE ENTRANCE APPLICATIONS. PROVIDE 1-20A FUSE AND MOUNT 60" AFF REFERENCING HANDLE.

② PROVIDE 3/4" RCS CONDUIT WITH 2#12, #12G FROM LOAD SIDE OF FSS TO GFCI RECEPTACLE.

TOP OF COLUMN - PROVIDE MINIMUM UL LISTED RADIUS ELBOW 6" ABOVE THE FLASHING AND 2" BEYOND THE COLUMN FOR DOWN CONDUCTOR CONNECTIONS TO AIR TERMINALS, (TYP)

PROVIDE MINIMUM UL LISTED RADIUS ELBOW ROUTED VERTICALLY ABOVE FOOTER TO FSS

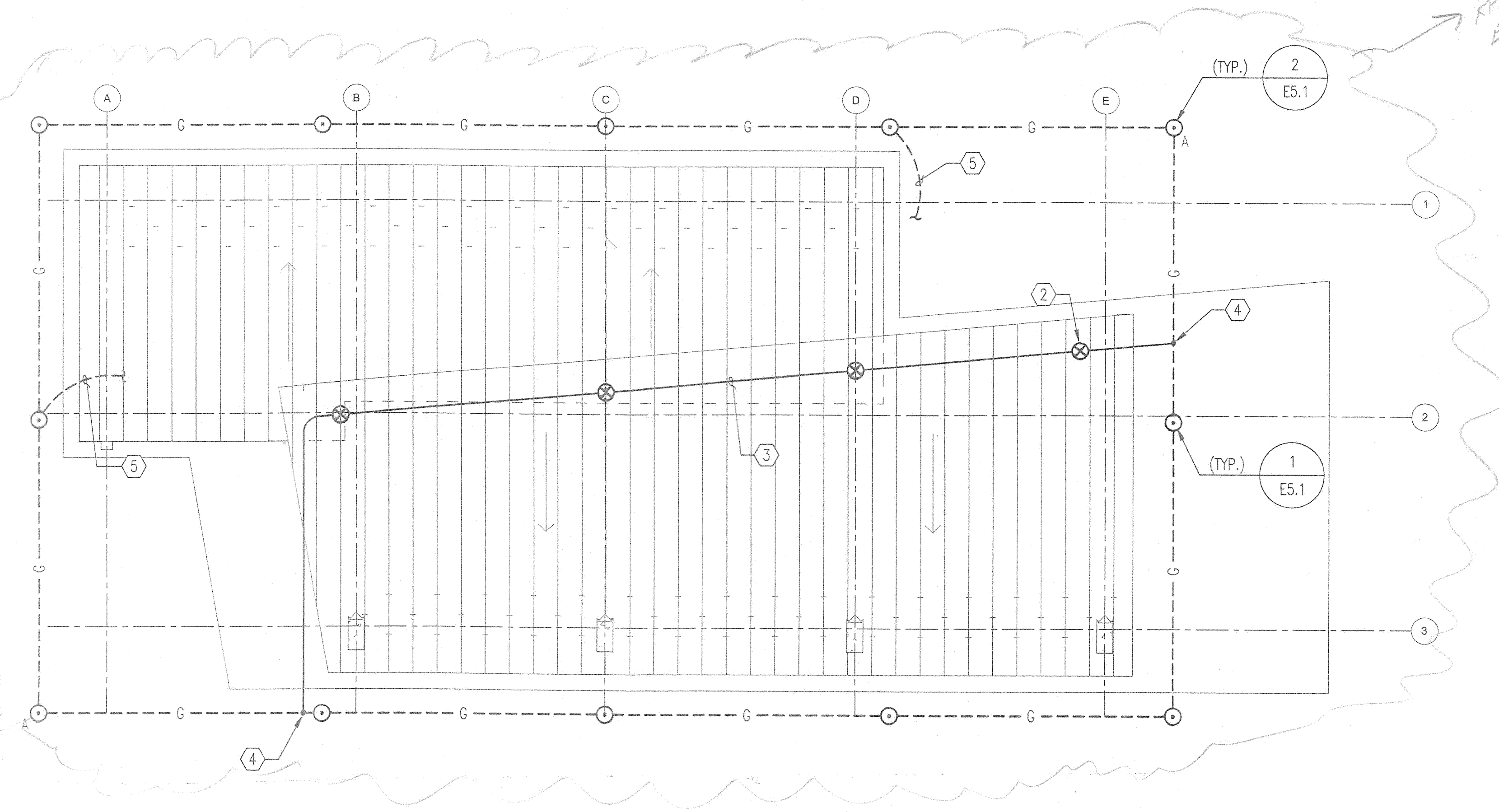
EMBED A 1" PVC CONDUIT WITHIN THE CONCRETE COLUMN FOR THE LPS DOWN CONDUCTORS. PROVIDE A 12" RADIUS ELBOW BELOW GRADE AND EXTEND 1-FOOT BEYOND THE FOOTER, (TYP). SEE ASSOCIATED NOTE FOR CONDUIT EXITING TOP OF COLUMN.



**SPECIFIC NOTES**

- ① REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING REQUIREMENT.
- ② PROVIDE LIGHTNING AIR TERMINAL WITHIN 2'-0" OF EDGE OF ROOF (TYPICAL).
- ③ BOND MAIN CONDUCTORS TO AIR TERMINALS (TYPICAL).
- ④ BOND DOWN CONDUCTORS TO GROUNDING GRID (TYPICAL).
- ⑤ BOND TO ENCLOSURES AND BOXES (TYPICAL).
- ⑥ PROVIDE 2#3 AWG & 1#8G IN 2"C.

1 POWER PLAN - PICNIC SHELTER  
E1.3 SCALE: 3/16"=1'-0"



2 GROUNDING & LIGHTNING PROTECTION PLAN - PICNIC SHELTER  
E1.3 SCALE: 3/16"=1'-0"

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**HOWARD COUNTY**  
 DEPARTMENT OF RECREATION AND PARKS  
 7120 OAKLAND MILLS ROAD  
 COLUMBIA, MD 21046  
 DEPARTMENT OF PUBLIC WORKS  
 9250 BENDIX ROAD  
 ELLICOTT CITY, MD 21043

**WR&A**  
 WHITMAN, REQUARDT & ASSOCIATES, LLP  
 801 South Caroline Street, Baltimore, Maryland 21231  
 Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY  
 TAX MAP 36, GRID 5, PARCEL 3,72  
 ZONING: RC-DEO  
 ELECTION DISTRICT 3/7

GRAPHIC SCALES  
  
 SCALE: 3/16" = 1'-0"

SIGNATURE  
  
 Antava Poddes  
 PROFESSIONAL CERTIFICATION:  
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 EXPIRATION DATE: 7/22/12

**BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT**

ELECTRICAL  
 PICNIC SHELTER  
 POWER AND ROOF PLANS  
 Drawing No.  
**E1.3**

Scale: 3/16" = 1'-0"  
 Date: 11/28/2011 Sheet 51 of 55  
 Des: JVL Drawn: AGT Check: AP

FILED IN: 11/28/2011 10:45 AM BY: JVL



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BID SET	11/28/11

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7120 OAKLAND MILLS ROAD  
COLUMBIA, MD 21046  
DEPARTMENT OF PUBLIC WORKS  
9250 BENDIX ROAD  
ELLICOTT CITY, MD 21043

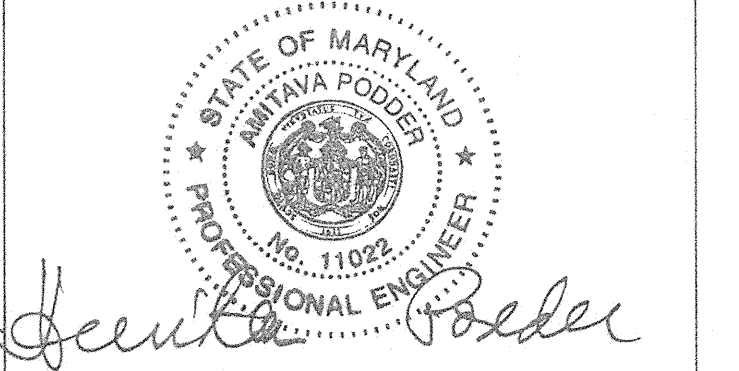


WHITMAN, REQUARDT & ASSOCIATES, LLP  
801 South Caroline Street, Baltimore, Maryland 21231  
Phone: 410-235-3450 Fax: 410-243-6716

PROPERTY  
TAX MAP 36, GRID 5, PARCEL 3,72  
ZONING: RC-DEO  
ELECTION DISTRICT 3/7

GRAPHIC SCALES

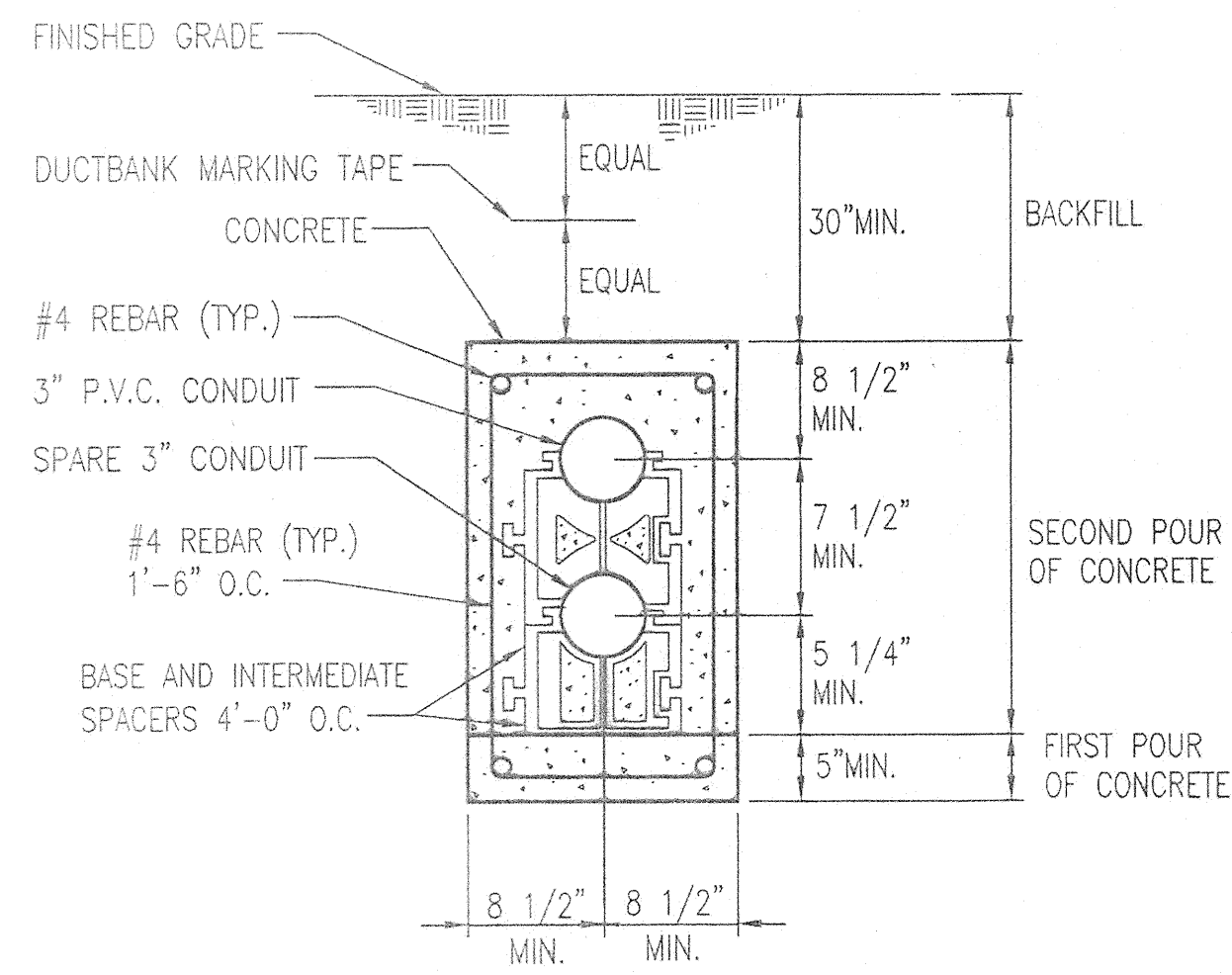
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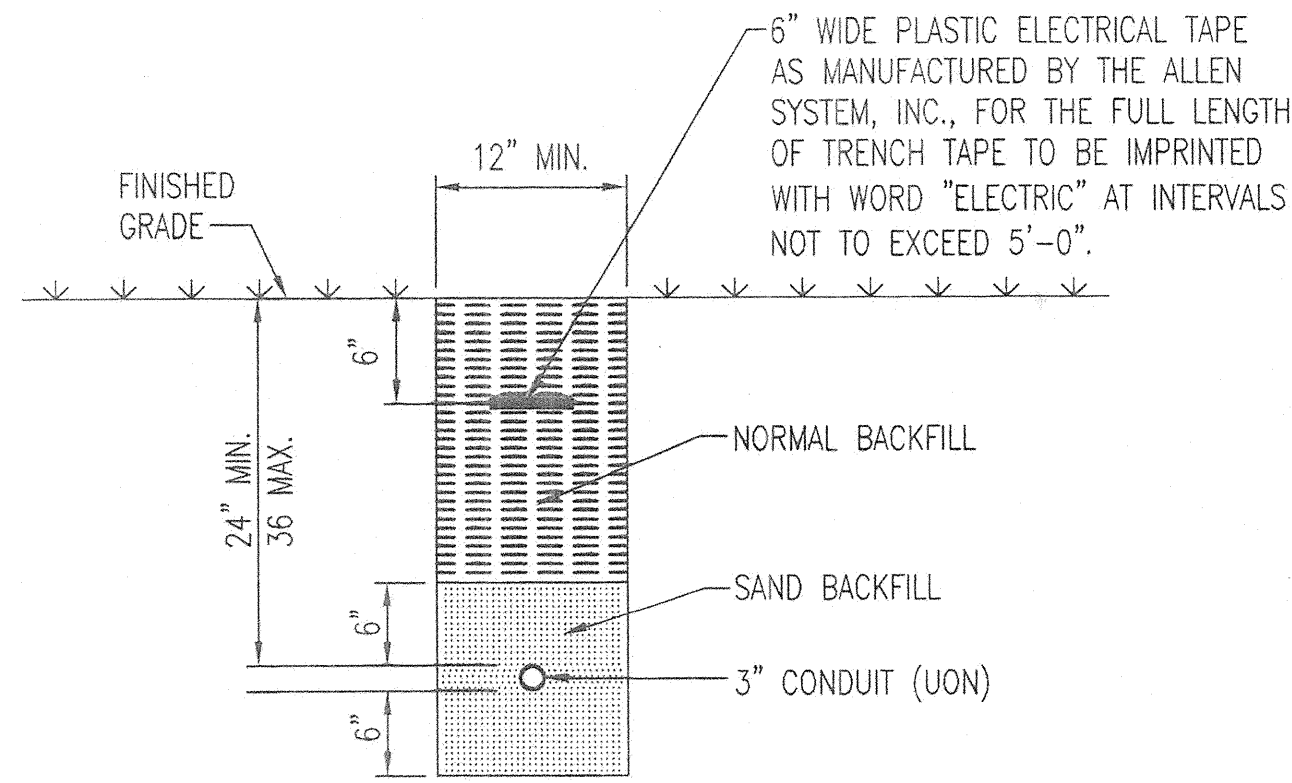
PROFESSIONAL CERTIFICATION  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 11922  
EXPIRATION DATE: 7/22/12

BLANDAIR REGIONAL PARK - PHASE 1 BUILDING CONTRACT

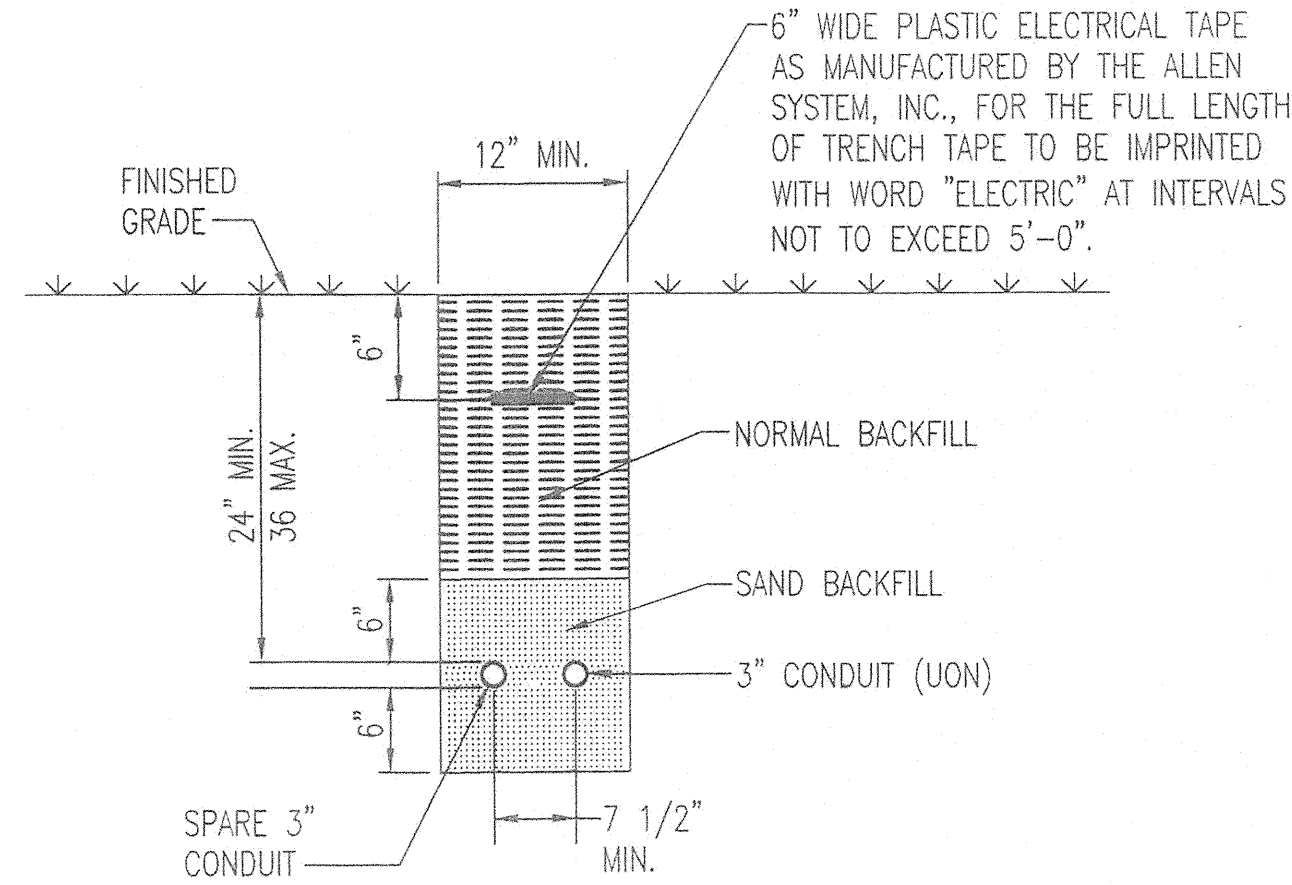
ELECTRICAL DETAILS  
Drawing No. E5.2  
Scale: NONE  
Date: 11/28/2011 Sheet 53 of 55  
Des: JVL Drawn: AGT Check: AP



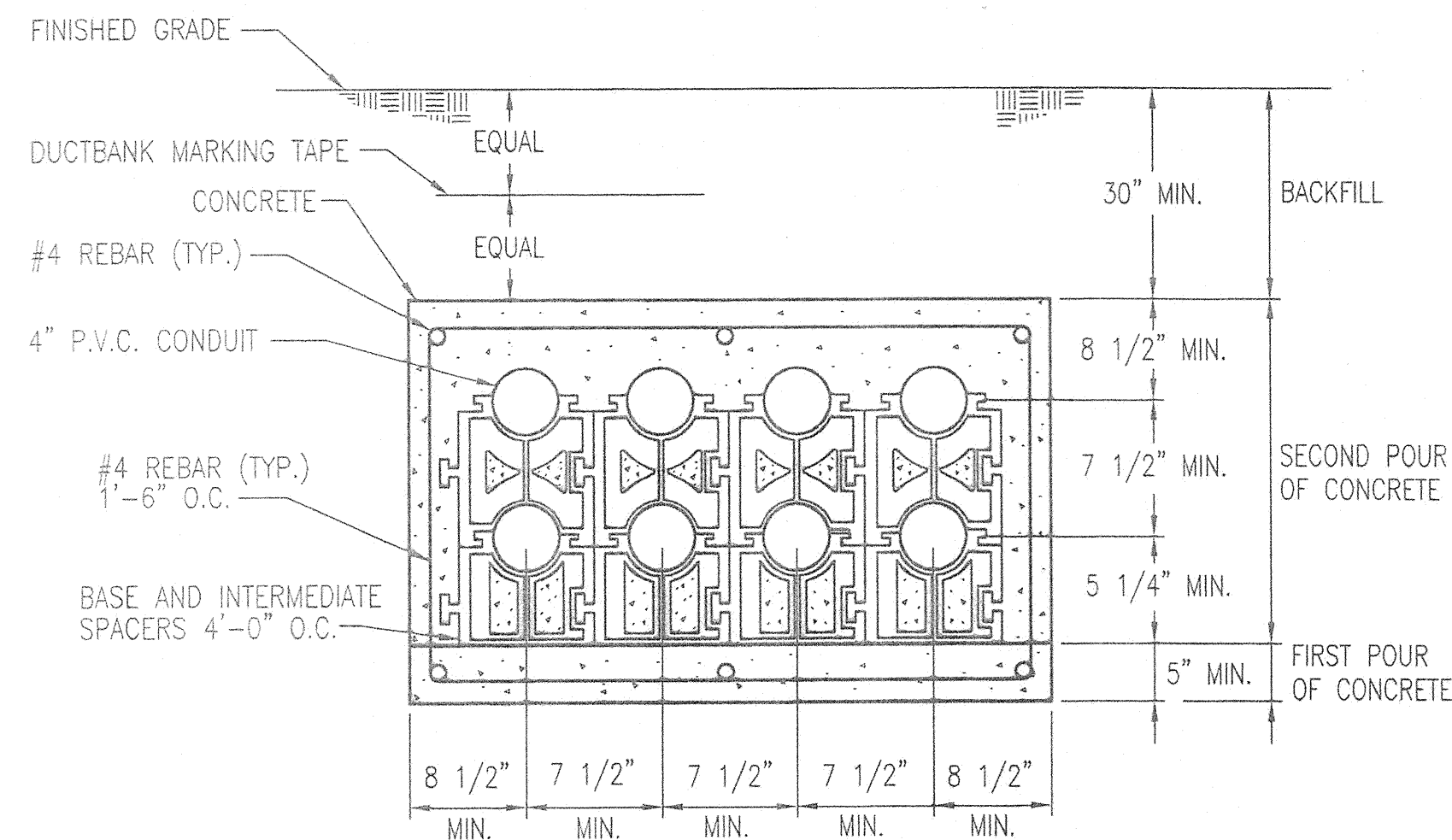
NOTE: REFER TO STRUCTURAL DRAWINGS FOR MATERIAL REQUIREMENTS.  
1 DETAIL - 2 - WAY DUCTBANK  
E5.2 NOT TO SCALE



2 DETAIL - UNDERGROUND CONDUIT INSTALLATION  
E5.2 NOT TO SCALE



3 DETAIL - UNDERGROUND CONDUIT INSTALLATION  
E5.2 NOT TO SCALE



NOTE: REFER TO STRUCTURAL DRAWINGS FOR MATERIAL REQUIREMENTS.  
4 8-WAY DUCTBANK DETAIL  
E5.2 NOT TO SCALE





REVISIONS	
BID SET	11/28/11

LIGHTING FIXTURE SCHEDULE								
FIXTURE TYPE	DESCRIPTION	MOUNTING	LAMPS			MANUFACTURER	VOLTS	REMARKS
			NO	WATTS	TYPE			
△D	ENCLOSED AND GASKETED INDUSTRIAL LUMINAIRE, FIBER GLASS HOUSING, HIGH-IMPACT ACRYLIC LENS, ELECTRONIC BALLAST, FUSE, DAMP LOCATION, EMERGENCY BATTERY PACK.	SUSPENDED 10'-0"	2	32	F32T8	LITHONIA DM-2-32-120-GEB10RS-EL5DW-GLR	120	
△F	VANDAL RESISTANT WALL BRACKET, STEEL HOUSING, .130" A12 PRISMATIC POLYCARBONATE LENS, ELECTRONIC BALLAST, 50° F EMERGENCY BATTERY PACK, FUSE, DAMP LOCATION LISTED.	WALL 8'-0"	2	32	F32T8	LITHONIA VWC-2-32-120-GEB10RS-EL5DW-GLR	120	
△G	CYLINDRICAL DOWNLIGHT, HEAVY GAUGE ALUMINUM HOUSING AND REFLECTOR, VERTICAL LAMP, 10" APERTURE, FRESNEL LENS, HIGH POWER FACTOR BALLAST, FUSE, NATURAL ALUMINUM COLOR.	SURFACE/ CEILING	1	50	MH	GOHAM CEC10-50M-120-DNA	120	
△H	DECORATIVE 1/4 SPHERE LUMINAIRE, DIE CAST ALUMINUM HOUSING, TEMPERED GLASS LENS, SEGMENTED WIDE-THROW OPTICS, HIGH POWER FACTOR BALLAST, FUSE, NATURAL ALUMINUM COLOR, WET LOCATION.	WALL 10'-0"	1	70	MH	LITHONIA WSQ-70M-WT-120-SF-DNAT	120	

**HOWARD COUNTY**

DEPARTMENT OF  
RECREATION AND PARKS  
7120 OAKLAND MILLS ROAD  
COLUMBIA, MD 21046

DEPARTMENT OF  
PUBLIC WORKS  
9250 BENDIX ROAD  
ELLCOTT CITY, MD 21043

**WR&A**

WHITMAN, REQUARDT  
& ASSOCIATES, LLP  
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PROPERTY

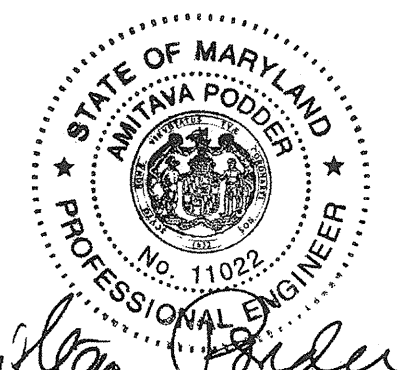
TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7

GRAPHIC SCALES

SIGNATURE



*William J. Jander*

PROFESSIONAL CERTIFICATION:  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE  
PREPARED OR APPROVED BY ME, AND THAT I AM A DULY  
LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF  
THE STATE OF MARYLAND, LICENSE NO. 11022  
EXPIRATION DATE: 7/22/12

BLANDAIR REGIONAL  
PARK - PHASE 1  
BUILDING CONTRACT

ELECTRICAL  
LIGHTING SCHEDULES

Drawing No.  
**E6.2**

Scale: NONE

Date: 11/28/2011 Sheet 55 of 55

Des: JVL Drawn: AGT Check: AP

FILENAME: N:\42838-601\CAD\428380010-REV.DWG